



# NetMHCII 2.0 Server - prediction results

Technical University of Denmark

# Input is in FSA format  
NetMHCII version 2.0.

Strong binder threshold 50.00. Weak binder threshold 500.00.

Allele	pos	peptide	core	1-log50k(aff)	affinity(nM)	Bind	Level	%Random	Identity
DRB1_0101	19	EEGVTPLRARIAERL	VTPLRARIA	0.8435	5.4	SB	4.00	Rv2711, TB	
DRB1_0101	20	EGVTPLRARIAERLD	VTPLRARIA	0.8292	6.3	SB	4.00	Rv2711, TB	
DRB1_0101	21	GVTPLRARIAERLDQ	VTPLRARIA	0.8182	7.2	SB	8.00	Rv2711, TB	
DRB1_0101	18	EEEGVTPLRARIAER	VTPLRARIA	0.8066	8.1	SB	8.00	Rv2711, TB	
DRB1_0101	22	VTPLRARIAERLDQS	VTPLRARIA	0.8051	8.2	SB	8.00	Rv2711, TB	
DRB1_0101	112	ERRLVKVLLNPTTSP	LVKVLNNPT	0.7781	11.0	SB	16.00	Rv2711, TB	
DRB1_0101	111	VERRLVKVLLNPTTS	LVKVLNNPT	0.7741	11.5	SB	16.00	Rv2711, TB	
DRB1_0101	113	RRLVKVLLNPTTSPF	LVKVLNNPT	0.7728	11.7	SB	16.00	Rv2711, TB	
DRB1_0101	69	ALAIAMVRKHRLAER	IAMVRKHRL	0.7626	13.0	SB	16.00	Rv2711, TB	
DRB1_0101	17	LEEGVTPLRARIAE	VTPLRARIA	0.7564	14.0	SB	16.00	Rv2711, TB	
DRB1_0101	61	LELTEKGRALAIAM	TEKGRALAI	0.7494	15.1	SB	16.00	Rv2711, TB	
DRB1_0101	16	DLEEGVTPLRARIA	VTPLRARIA	0.7291	18.7	SB	16.00	Rv2711, TB	
DRB1_0101	70	LAIAMVRKHRLAERL	IAMVRKHRL	0.7199	20.7	SB	16.00	Rv2711, TB	
DRB1_0101	68	RALAIAMVRKHRLAE	IAMVRKHRL	0.7184	21.1	SB	16.00	Rv2711, TB	
DRB1_0101	74	VMRKHRLAERLLVDV	KHRLAERLL	0.7181	21.1	SB	16.00	Rv2711, TB	
DRB1_0101	110	DVERRLVKVLLNPTT	LVKVLNNPT	0.7138	22.1	SB	16.00	Rv2711, TB	
DRB1_0101	60	HLELTEKGRALAIAM	TEKGRALAI	0.7124	22.5	SB	16.00	Rv2711, TB	
DRB1_0101	59	RHLELTEKGRALAIAM	ELTEKGRAL	0.7110	22.8	SB	16.00	Rv2711, TB	
DRB1_0101	62	ELTEKGRALAIAMVR	TEKGRALAI	0.7100	23.0	SB	16.00	Rv2711, TB	
DRB1_0101	67	GRALAIAMVRKHRLA	IAMVRKHRL	0.7039	24.6	SB	32.00	Rv2711, TB	
DRB1_0101	153	LTELPAGSPVAVVVR	LPAGSPVAV	0.7015	25.3	SB	32.00	Rv2711, TB	
DRB1_0101	147	DANLVRLTELPAGSP	LVRLTELPA	0.7014	25.3	SB	32.00	Rv2711, TB	
DRB1_0101	152	RLTELPAGSPVAVVV	LPAGSPVAV	0.7007	25.5	SB	32.00	Rv2711, TB	
DRB1_0101	146	DDANLVRLTELPAGS	LVRLTELPA	0.6973	26.4	SB	32.00	Rv2711, TB	
DRB1_0101	63	LTEKGRALAIAMVRK	TEKGRALAI	0.6952	27.1	SB	32.00	Rv2711, TB	
DRB1_0101	114	RLVKVLLNPTTSPFG	LVKVLNNPT	0.6931	27.7	SB	32.00	Rv2711, TB	
DRB1_0101	72	IAMVRKHRLAERLLV	KHRLAERLL	0.6916	28.1	SB	32.00	Rv2711, TB	
DRB1_0101	151	VRLTELPAGSPVAVV	TELPAGSPV	0.6915	28.2	SB	32.00	Rv2711, TB	
DRB1_0101	23	TPLRARIAERLDQSG	LRARIAERL	0.6849	30.2	SB	32.00	Rv2711, TB	
DRB1_0101	75	MRKHRLAERLLVDVI	KHRLAERLL	0.6822	31.1	SB	32.00	Rv2711, TB	
DRB1_0101	150	LVRLTELPAGSPVAV	LTELPAGSP	0.6800	31.9	SB	32.00	Rv2711, TB	
DRB1_0101	71	AIAMVRKHRLAERLL	IAMVRKHRL	0.6756	33.4	SB	32.00	Rv2711, TB	
DRB1_0101	148	ANLVRLTELPAGSPV	LVRLTELPA	0.6741	34.0	SB	32.00	Rv2711, TB	
DRB1_0101	73	AMVRKHRLAERLLVD	KHRLAERLL	0.6699	35.6	SB	32.00	Rv2711, TB	
DRB1_0101	215	TLPHEMAHAVKVEKV	HEMAHAVKV	0.6692	35.9	SB	32.00	Rv2711, TB	
DRB1_0101	66	KGRALAIAMVRKHRL	IAMVRKHRL	0.6667	36.8	SB	32.00	Rv2711, TB	
DRB1_0101	100	ACRWEHVMSSEDDV	WEHVMSSEDDV	0.6635	38.1	SB	32.00	Rv2711, TB	
DRB1_0101	58	DRHLELTEKGRALAI	ELTEKGRAL	0.6556	41.5	SB	32.00	Rv2711, TB	
DRB1_0101	64	TEKGRALAIAMVRKH	KGRALAIAM	0.6494	44.4	SB	32.00	Rv2711, TB	
DRB1_0101	213	NVTLPHEMAHAVKVE	LPHEMAHAV	0.6401	49.1	SB	32.00	Rv2711, TB	
DRB1_0101	154	TELPAGSPVAVVVRQ	LPAGSPVAV	0.6371	50.7	WB	32.00	Rv2711, TB	
DRB1_0101	214	VTLPHMAHAVKVEKV	HEMAHAVKV	0.6328	53.1	WB	32.00	Rv2711, TB	
DRB1_0101	76	KHRLAERLLVDVIG	KHRLAERLL	0.6302	54.7	WB	32.00	Rv2711, TB	
DRB1_0101	212	ENVTLPHMAHAVKVE	LPHEMAHAV	0.6286	55.6	WB	32.00	Rv2711, TB	
DRB1_0101	210	GHEVNTLPHEMAHAV	NVTLPHEMA	0.6271	56.5	WB	32.00	Rv2711, TB	
DRB1_0101	161	PVAVVVRQLTEHVQG	VVRQLTEHV	0.6244	58.2	WB	32.00	Rv2711, TB	
DRB1_0101	109	EDVERRLVKVLLNPT	LVKVLNNPT	0.6242	58.4	WB	32.00	Rv2711, TB	
DRB1_0101	149	NLVRLTELPAGSPVA	LVRLTELPA	0.6235	58.8	WB	32.00	Rv2711, TB	
DRB1_0101	145	ADDANLVRLTELPAG	LVRLTELPA	0.6211	60.3	WB	32.00	Rv2711, TB	
DRB1_0101	162	VAVVVRQLTEHVQGD	VVRQLTEHV	0.6190	61.7	WB	32.00	Rv2711, TB	
DRB1_0101	24	PLRARIAERLDQSGP	LRARIAERL	0.6114	67.0	WB	32.00	Rv2711, TB	
DRB1_0101	101	CIRWEHVMSSEDDV	WEHVMSSEDDV	0.6081	69.4	WB	32.00	Rv2711, TB	
DRB1_0101	193	RVTVETTPGGGVTTIV	VETTPGGGV	0.6080	69.5	WB	32.00	Rv2711, TB	
DRB1_0101	65	EKGRALAIAMVRKHRL	GRALAIAM	0.6078	69.7	WB	32.00	Rv2711, TB	
DRB1_0101	177	IDLITRLKDGAVVVPN	ITRLKDGAV	0.6060	71.0	WB	32.00	Rv2711, TB	
DRB1_0101	50	DGLLRVAGDRHLELT	LRVAGDRHL	0.6058	71.2	WB	32.00	Rv2711, TB	
DRB1_0101	211	HENVTLPHMAHAVK	NVTLPHEMA	0.6022	74.0	WB	32.00	Rv2711, TB	
DRB1_0101	202	GGVTIVIPGHENVTL	TIVIPGHEN	0.6014	74.6	WB	32.00	Rv2711, TB	

DRB1_0101	155	ELPAGSPVAVVVRQL	LPAGSPVAV	0.5950	80.0	WB	50.00	Rv2711, TB
DRB1_0101	51	GLLRVAGDRHLELTE	LRVAGDRHL	0.5905	84.0	WB	50.00	Rv2711, TB
DRB1_0101	42	QTVSRMERDGLLRVA	SRMERDGLL	0.5880	86.3	WB	50.00	Rv2711, TB
DRB1_0101	124	TSFPFGNPI PGLVELG	FGNPI PGLV	0.5813	92.8	WB	50.00	Rv2711, TB
DRB1_0101	115	LVKVLNNPTTSPFGN	LVKVLNNPT	0.5802	93.9	WB	50.00	Rv2711, TB
DRB1_0101	160	SPVAVVVRQLTEHVQ	VVRQLTEHV	0.5777	96.5	WB	50.00	Rv2711, TB
DRB1_0101	99	EACRWEHVMSSEDVER	WEHVMSEDV	0.5770	97.2	WB	50.00	Rv2711, TB
DRB1_0101	57	GDRHLELTEKGRALA	ELTEKGRAL	0.5759	98.4	WB	50.00	Rv2711, TB
DRB1_0101	156	LPAGSPVAVVVRQLT	LPAGSPVAV	0.5748	99.6	WB	50.00	Rv2711, TB
DRB1_0101	77	KHRLAERLLVDVIGL	KHRLAERLL	0.5673	108.0	WB	50.00	Rv2711, TB
DRB1_0101	102	RWEHVMSSEDVERRLV	WEHVMSEDV	0.5587	118.5	WB	50.00	Rv2711, TB
DRB1_0101	144	GADDANLVRLETPLA	LVRLTEPLA	0.5583	118.9	WB	50.00	Rv2711, TB
DRB1_0101	123	TTSPFGNPI PGLVEL	FGNPI PGLV	0.5579	119.6	WB	50.00	Rv2711, TB
DRB1_0101	49	RDGLLRVAGDRHLEL	LRVAGDRHL	0.5574	120.2	WB	50.00	Rv2711, TB
DRB1_0101	25	LRARIAERLDQSGPT	LRARIAERL	0.5560	122.0	WB	50.00	Rv2711, TB
DRB1_0101	159	GSPVAVVVRQLTEHV	PVAVVVRQL	0.5557	122.4	WB	50.00	Rv2711, TB
DRB1_0101	178	DLITRLKDGAVVPNA	ITRLKDAGV	0.5536	125.2	WB	50.00	Rv2711, TB
DRB1_0101	203	GVTIVIPGHENVTLPL	TIVIPGHEN	0.5518	127.7	WB	50.00	Rv2711, TB
DRB1_0101	158	AGSPVAVVVRQLTEH	PVAVVVRQL	0.5502	129.8	WB	50.00	Rv2711, TB
DRB1_0101	175	GDIDLITRLKDGAVV	ITRLKDAGV	0.5488	131.9	WB	50.00	Rv2711, TB
DRB1_0101	176	DIDLITRLKDGAVVP	ITRLKDAGV	0.5472	134.2	WB	50.00	Rv2711, TB
DRB1_0101	179	LITRLKDGAVVPNAR	ITRLKDAGV	0.5467	134.9	WB	50.00	Rv2711, TB
DRB1_0101	209	PGHENVTLPHEMAHA	NVTLPHEMA	0.5418	142.2	WB	50.00	Rv2711, TB
DRB1_0101	163	AVVVRQLTEHVQGGDI	VVRQLTEHV	0.5412	143.2	WB	50.00	Rv2711, TB
DRB1_0101	125	SPFGNPI PGLVELGV	FGNPI PGLV	0.5408	143.9	WB	50.00	Rv2711, TB
DRB1_0101	194	VTVETTPGGGVTIVI	VETTPGGGV	0.5350	153.2	WB	50.00	Rv2711, TB
DRB1_0101	183	LKDAGVVPNARVTVE	AGVVPNARV	0.5319	158.3	WB	50.00	Rv2711, TB
DRB1_0101	43	TVSRMERDGLLRVAG	SRMERDGLL	0.5312	159.6	WB	50.00	Rv2711, TB
DRB1_0101	182	RLKDAGVVPNARVTV	AGVVPNARV	0.5308	160.3	WB	50.00	Rv2711, TB
DRB1_0101	52	LRVAGDRHLELTEK	LRVAGDRHL	0.5304	160.9	WB	50.00	Rv2711, TB
DRB1_0101	157	PAGSPVAVVVRQLTE	PVAVVVRQL	0.5262	168.3	WB	50.00	Rv2711, TB
DRB1_0101	35	QSQTVSQTVSRMER	TVSQTVSRM	0.5196	180.9	WB	50.00	Rv2711, TB
DRB1_0101	41	SQTVSRMERDGLLRV	SRMERDGLL	0.5192	181.7	WB	50.00	Rv2711, TB
DRB1_0101	78	HLAERLLVDVIGLP	AERLLVDVI	0.5167	186.7	WB	50.00	Rv2711, TB
DRB1_0101	79	RLAERLLVDVIGLPW	RLLDVIGL	0.5167	186.7	WB	50.00	Rv2711, TB
DRB1_0101	36	SGPTVSQTVSRMERD	TVSQTVSRM	0.5139	192.3	WB	50.00	Rv2711, TB
DRB1_0101	30	AERLDQSGPTVSQTV	LDQSGPTVS	0.5080	205.1	WB	50.00	Rv2711, TB
DRB1_0101	180	ITRLKDGAVVPNARV	ITRLKDAGV	0.5043	213.4	WB	50.00	Rv2711, TB
DRB1_0101	126	PFGNPI PGLVELGVG	FGNPI PGLV	0.5021	218.5	WB	50.00	Rv2711, TB
DRB1_0101	56	AGDRHLELTEKGRAL	ELTEKGRAL	0.4975	229.8	WB	50.00	Rv2711, TB
DRB1_0101	6	TTEMYLRITYDLEEE	MYLRITYDL	0.4968	231.4	WB	50.00	Rv2711, TB
DRB1_0101	3	LVDTTTEMYLRITYDL	TTEMYLRTI	0.4957	234.2	WB	50.00	Rv2711, TB
DRB1_0101	82	ERLLVDVIGLPWEEV	RLLDVIGL	0.4935	240.0	WB	50.00	Rv2711, TB
DRB1_0101	80	LAERLLVDVIGLPWE	RLLDVIGL	0.4930	241.2	WB	50.00	Rv2711, TB
DRB1_0101	83	RLLDVIGLPWEEVH	RLLDVIGL	0.4927	242.0	WB	50.00	Rv2711, TB
DRB1_0101	174	QGDIDLITRLKDGAV	ITRLKDAGV	0.4920	243.9	WB	50.00	Rv2711, TB
DRB1_0101	98	AEACRWEHVMSSEDVE	WEHVMSEDV	0.4915	245.2	WB	50.00	Rv2711, TB
DRB1_0101	192	ARVTVETTPGGGVTI	VETTPGGGV	0.4833	267.8	WB	50.00	Rv2711, TB
DRB1_0101	127	FGNPI PGLVELGVGP	FGNPI PGLV	0.4832	268.3	WB	50.00	Rv2711, TB
DRB1_0101	204	VITIVIPGHENVTLPH	TIVIPGHEN	0.4825	270.3	WB	50.00	Rv2711, TB
DRB1_0101	5	DTTEMYLRITYDLEE	MYLRITYDL	0.4820	271.5	WB	50.00	Rv2711, TB
DRB1_0101	122	PTTSPFGNPI PGLVE	FGNPI PGLV	0.4805	276.0	WB	50.00	Rv2711, TB
DRB1_0101	201	GGGVTIVIPGHENVT	TIVIPGHEN	0.4801	277.3	WB	50.00	Rv2711, TB
DRB1_0101	195	TVETTPGGGVTIVIP	TTPGGGVTI	0.4784	282.5	WB	50.00	Rv2711, TB
DRB1_0101	103	WEHVMSEDVERRLKV	WEHVMSEDV	0.4777	284.7	WB	50.00	Rv2711, TB
DRB1_0101	11	LRTIYDLEEEGVTPK	IYDLEEEGV	0.4776	284.8	WB	50.00	Rv2711, TB
DRB1_0101	0	MNELVDTTTEMYLRTI	LVDTTTEMYL	0.4776	285.0	WB	50.00	Rv2711, TB
DRB1_0101	44	VSRMERDGLLRVAGD	SRMERDGLL	0.4766	287.9	WB	50.00	Rv2711, TB
DRB1_0101	81	AERLLVDVIGLPWEE	RLLDVIGL	0.4766	288.0	WB	50.00	Rv2711, TB
DRB1_0101	4	VDTTEMYLRITYDLE	MYLRITYDL	0.4755	291.5	WB	50.00	Rv2711, TB
DRB1_0101	84	LLVDVIGLPWEEVHA	VIGLPWEEV	0.4749	293.5	WB	50.00	Rv2711, TB
DRB1_0101	1	NELVDTTTEMYLRITY	DTTEMYLR	0.4745	294.6	WB	50.00	Rv2711, TB
DRB1_0101	7	TEMYLRITYDLEEEG	MYLRITYDL	0.4738	296.7	WB	50.00	Rv2711, TB
DRB1_0101	181	TRLKDAGVVPNARVT	KDAGVVPNA	0.4709	306.4	WB	50.00	Rv2711, TB
DRB1_0101	208	IPGHENVTLPHEMAH	NVTLPHEMA	0.4668	320.2	WB	50.00	Rv2711, TB
DRB1_0101	2	ELVDTTTEMYLRITYD	DTTEMYLR	0.4633	332.7	WB	50.00	Rv2711, TB
DRB1_0101	85	LVDVIGLPWEEVHA	VIGLPWEEV	0.4614	339.5	WB	50.00	Rv2711, TB
DRB1_0101	97	HAEACRWEHVMSEDV	WEHVMSEDV	0.4611	340.8	WB	50.00	Rv2711, TB
DRB1_0101	169	LTEHVQGDIDLITRL	HVQGDIDL	0.4597	345.6	WB	50.00	Rv2711, TB
DRB1_0101	121	NPTTSPFGNPI PGLV	FGNPI PGLV	0.4579	352.7	WB	50.00	Rv2711, TB
DRB1_0101	184	KDAGVVPNARVTVET	AGVVPNARV	0.4558	360.5	WB	50.00	Rv2711, TB
DRB1_0101	164	VVVRQLTEHVQGGDID	VRQLTEHVQ	0.4534	370.1	WB	50.00	Rv2711, TB
DRB1_0101	47	MERDGLLRVAGDRHL	RDGLLRVAG	0.4532	371.2	WB	50.00	Rv2711, TB
DRB1_0101	37	GPTVSQTVSRMERDGL	TVSQTVSRM	0.4483	391.1	WB	50.00	Rv2711, TB
DRB1_0101	48	ERDGLLRVAGDRHLE	LRVAGDRHL	0.4471	396.2	WB	50.00	Rv2711, TB
DRB1_0101	15	YDLEEEGVTPLRARI	EEGVTPLR	0.4465	399.0	WB	50.00	Rv2711, TB
DRB1_0101	29	IAERLDQSGPTVSQTV	RLDQSGPTV	0.4426	416.3	WB	50.00	Rv2711, TB

DRB1_0101	8	EMYLRTIYDLEEEGV	YLRTIYDLE	0.4418	419.8	WB	50.00	Rv2711, TB
DRB1_0101	34	DQSGPTVSVQTVSRME	TVSQTVSRM	0.4372	441.0	WB	50.00	Rv2711, TB
DRB1_0101	9	MYLRTIYDLEEEGVT	YLRTIYDLE	0.4364	445.0	WB	50.00	Rv2711, TB
DRB1_0101	45	SRMERDGLLRVAGDR	RDGLLRVAG	0.4357	448.2	WB	50.00	Rv2711, TB
DRB1_0101	33	LDQSGPTVSVQTVSRM	TVSQTVSRM	0.4341	456.4	WB	50.00	Rv2711, TB
DRB1_0101	31	ERLDQSGPTVSVQTVS	LDQSGPTVS	0.4319	467.4	WB	50.00	Rv2711, TB
DRB1_0101	53	LRVAGDRHLELTEKG	LRVAGDRHL	0.4284	485.0	WB	50.00	Rv2711, TB
DRB1_0101	196	VETTPGGGVTIVIPG	TPGGGVTI	0.4260	498.0	WB	50.00	Rv2711, TB
DRB1_0101	14	IYDLEEEGVTPLRAR	LEEEGVTP	0.4188	538.3		50.00	Rv2711, TB
DRB1_0101	46	RMERDGLLRVAGDRH	RDGLLRVAG	0.4188	538.5		50.00	Rv2711, TB
DRB1_0101	170	TEHVQGDIDLITRLK	HVQGDIDLI	0.4174	546.3		50.00	Rv2711, TB
DRB1_0101	116	VKVLNPNPTSPFGNP	VKVLNPNPT	0.4155	557.8		50.00	Rv2711, TB
DRB1_0101	200	PGGGVTIVIPGHENV	TIVIPGHEN	0.4085	601.8		50.00	Rv2711, TB
DRB1_0101	172	HVQGDIDLITRLKDA	HVQGDIDLI	0.4052	623.5		50.00	Rv2711, TB
DRB1_0101	173	VQGDIDLITRLKDG	DIDLITRLK	0.3998	661.0		50.00	Rv2711, TB
DRB1_0101	40	VSQTVSRMERDGLLR	SRMERDGLL	0.3989	667.6		50.00	Rv2711, TB
DRB1_0101	197	ETTPGGGVTIVIPGH	PGGGVTIVI	0.3989	667.8		50.00	Rv2711, TB
DRB1_0101	32	RLDQSGPTVSVQTVSR	LDQSGPTVS	0.3987	668.8		50.00	Rv2711, TB
DRB1_0101	205	TIVIPGHENVTLPH	TIVIPGHEN	0.3975	677.6		50.00	Rv2711, TB
DRB1_0101	168	QLTEHVQGDIDLITR	HVQGDIDLI	0.3967	683.5		50.00	Rv2711, TB
DRB1_0101	128	GNPIPLGLVELGVGPE	IPGLVELGV	0.3948	698.3		50.00	Rv2711, TB
DRB1_0101	185	DAGVVPNARVTVETT	AGVVPNARV	0.3888	745.0		50.00	Rv2711, TB
DRB1_0101	171	EHVQGDIDLITRLKD	HVQGDIDLI	0.3887	745.4		50.00	Rv2711, TB
DRB1_0101	207	VIPGHENVTLPH	NVTLPH	0.3875	755.7		50.00	Rv2711, TB
DRB1_0101	143	PGADDANLVRLTELP	DDANLVRLT	0.3873	756.8		50.00	Rv2711, TB
DRB1_0101	107	MSEDVERRLVKVLNN	RRLVKVLNN	0.3867	762.3		50.00	Rv2711, TB
DRB1_0101	142	EPGADDANLVRLTEL	DDANLVRLT	0.3858	769.3		50.00	Rv2711, TB
DRB1_0101	38	PTVSVQTVSRMERDGL	TVSQTVSRM	0.3855	771.6		50.00	Rv2711, TB
DRB1_0101	191	NARVTVETTPGGGV	VETTPGGGV	0.3843	782.0		50.00	Rv2711, TB
DRB1_0101	198	ETTPGGGVTIVIPGH	PGGGVTIVI	0.3841	783.3		50.00	Rv2711, TB
DRB1_0101	86	VDVIGLPWEEVHAEA	VIGLPWEEV	0.3826	796.8		50.00	Rv2711, TB
DRB1_0101	10	YLRTIYDLEEEGVTP	IYDLEEEGV	0.3821	800.4		50.00	Rv2711, TB
DRB1_0101	12	RTIYDLEEEGVTPLR	IYDLEEEGV	0.3792	825.9		50.00	Rv2711, TB
DRB1_0101	108	SEVVERRLVKVLNPN	VERRLVKVL	0.3747	867.3		50.00	Rv2711, TB
DRB1_0101	186	AGVVPNARVTVETTP	AGVVPNARV	0.3713	899.9		50.00	Rv2711, TB
DRB1_0101	129	NPVIGLPWEEVHAEAC	VIGLPWEEV	0.3679	933.3		50.00	Rv2711, TB
DRB1_0101	105	HVMSEDVERRLVKVL	SEDVERRLV	0.3677	936.1		50.00	Rv2711, TB
DRB1_0101	28	RIAERLDQSGPTVSD	LDQSGPTVS	0.3651	962.6		50.00	Rv2711, TB
DRB1_0101	165	VVRQLTEHVQGDIDL	VRQLTEHVQ	0.3634	980.0		50.00	Rv2711, TB
DRB1_0101	199	TPGGGVTIVIPGHEN	TIVIPGHEN	0.3634	980.8		50.00	Rv2711, TB
DRB1_0101	39	TVSQTVSRMERDGLL	TVSQTVSRM	0.3633	981.7		50.00	Rv2711, TB
DRB1_0101	88	VIGLPWEEVHAEACR	VIGLPWEEV	0.3605	1011.3		50.00	Rv2711, TB
DRB1_0101	130	PIPGLVELGVGPEPG	PIPGLVELG	0.3518	1111.8		50.00	Rv2711, TB
DRB1_0101	90	GLPWEEVHAEACRWE	WEEVHAEAC	0.3504	1128.4		50.00	Rv2711, TB
DRB1_0101	87	DVIGLPWEEVHAEAC	VIGLPWEEV	0.3463	1179.0		50.00	Rv2711, TB
DRB1_0101	106	VMSDVERRLVKVLN	SEDVERRLV	0.3428	1225.4		50.00	Rv2711, TB
DRB1_0101	167	RQLTEHVQGDIDLIT	HVQGDIDLI	0.3421	1234.4		50.00	Rv2711, TB
DRB1_0101	13	TIYDLEEEGVTPLR	LEEEGVTP	0.3397	1266.4		50.00	Rv2711, TB
DRB1_0101	89	IGLPWEEVHAEACRW	WEEVHAEAC	0.3366	1310.4		50.00	Rv2711, TB
DRB1_0101	104	EHVMSDVERRLVKV	VMSDVERR	0.3362	1315.6		50.00	Rv2711, TB
DRB1_0101	190	PNARVTVETTPGGGV	VETTPGGGV	0.3193	1579.6		50.00	Rv2711, TB
DRB1_0101	27	ARIAERLDQSGPTVS	LDQSGPTVS	0.3187	1590.1		50.00	Rv2711, TB
DRB1_0101	131	IPGLVELGVGPEPGA	IPGLVELGV	0.3141	1670.3		50.00	Rv2711, TB
DRB1_0101	166	VRQLTEHVQGDIDL	HVQGDIDLI	0.3126	1698.2		50.00	Rv2711, TB
DRB1_0101	140	GPEPGADDANLVRLT	PGADDANLV	0.3069	1806.7		50.00	Rv2711, TB
DRB1_0101	141	PEPGADDANLVRLTE	DDANLVRLT	0.3016	1912.8		50.00	Rv2711, TB
DRB1_0101	187	GVPNARVTVETTPG	VVPNARVTV	0.2944	2067.7		50.00	Rv2711, TB
DRB1_0101	91	LPWEEVHAEACRWEH	WEEVHAEAC	0.2920	2122.8		50.00	Rv2711, TB
DRB1_0101	120	NNPTSPFGNP	TTSPFGNPI	0.2830	2340.8		50.00	Rv2711, TB
DRB1_0101	92	PWEEVHAEACRWEHV	EVHAEACRW	0.2798	2420.9		50.00	Rv2711, TB
DRB1_0101	93	WEEVHAEACRWEHVM	EVHAEACRW	0.2751	2549.3		50.00	Rv2711, TB
DRB1_0101	117	KVLNPNPTSPFGNP	VLNPNPTSP	0.2718	2640.5		50.00	Rv2711, TB
DRB1_0101	26	RARIAERLDQSGPTV	IAERLDQSG	0.2686	2733.3		50.00	Rv2711, TB
DRB1_0101	54	RVAGDRHLELTEKGR	VAGDRHLEL	0.2652	2836.4		50.00	Rv2711, TB
DRB1_0101	132	PGLVELGVGPEPGAD	VELGVGPEP	0.2542	3196.3		50.00	Rv2711, TB
DRB1_0101	55	VAGDRHLELTEKGRA	RHLELTEKG	0.2517	3284.2		50.00	Rv2711, TB
DRB1_0101	95	EVHAEACRWEHVMSE	AEACRWEHV	0.2490	3378.6		50.00	Rv2711, TB
DRB1_0101	94	EVHAEACRWEHVMS	AEACRWEHV	0.2401	3720.1		50.00	Rv2711, TB
DRB1_0101	133	GLVELGVGPEPGADD	LGVGPEPGA	0.2386	3781.2		50.00	Rv2711, TB
DRB1_0101	188	VVPNARVTVETTPGG	VTVETTPGG	0.2346	3948.7		50.00	Rv2711, TB
DRB1_0101	134	LVELGVGPEPGADDA	LGVGPEPGA	0.2333	4007.6		50.00	Rv2711, TB
DRB1_0101	206	IVIPGHENVTLPH	IVIPGHENV	0.2297	4165.2		50.00	Rv2711, TB
DRB1_0101	118	VLNPNPTSPFGNP	TTSPFGNPI	0.2291	4191.8		50.00	Rv2711, TB
DRB1_0101	96	VHAEACRWEHVMSED	AEACRWEHV	0.2271	4284.4		50.00	Rv2711, TB
DRB1_0101	189	VPNARVTVETTPGGG	VTVETTPGG	0.2269	4293.8		50.00	Rv2711, TB
DRB1_0101	139	VGPEPGADDANLVRL	PGADDANLV	0.2267	4303.5		50.00	Rv2711, TB
DRB1_0101	119	LNNPTSPFGNP	TTSPFGNPI	0.2164	4808.1		50.00	Rv2711, TB

DRB1_0101	135	VELGVGPEPGADDAN	LGVGPEPGA	0.2078	5277.9	50.00	Rv2711, TB
DRB1_0101	136	ELGVGPEPGADDANL	VGPEPGADD	0.2032	5547.0	50.00	Rv2711, TB
DRB1_0101	137	LGVGPEPGADDANLV	VGPEPGADD	0.1956	6026.4	50.00	Rv2711, TB
DRB1_0101	138	GVGPEPGADDANLVR	PGADDANLV	0.1859	6687.7	50.00	Rv2711, TB

Allele: DRB1\_0101. Number of high binders 40. Number of weak binders 103. Number of peptides 216

Allele	pos	peptide	core	l-log50k(aff)	affinity(nM)	Bind Level	%Random	Identity
DRB1_0301	103	WEHVMSDEVERRLVK	VMSEDEVERR	0.6357	51.5	WB	2.00	Rv2711, TB
DRB1_0301	104	EHVMSDEVERRLVKV	VMSEDEVERR	0.6175	62.7	WB	2.00	Rv2711, TB
DRB1_0301	105	HVMSDEVERRLVKVL	VMSEDEVERR	0.6046	72.1	WB	4.00	Rv2711, TB
DRB1_0301	102	RWEHVMSDEVERRLV	HVMSDEVERR	0.5850	89.1	WB	4.00	Rv2711, TB
DRB1_0301	72	IAVMRKHRLAERLLV	IAVMRKHRL	0.5570	120.7	WB	4.00	Rv2711, TB
DRB1_0301	71	AIAVMRKHRLAERLL	IAVMRKHRL	0.5419	142.1	WB	8.00	Rv2711, TB
DRB1_0301	52	LLRVAGDRHLELTEK	LLRVAGDRH	0.5389	146.8	WB	8.00	Rv2711, TB
DRB1_0301	101	CRWEHVMSDEVERRL	HVMSDEVERR	0.5308	160.3	WB	8.00	Rv2711, TB
DRB1_0301	106	VMSDEVERRLVKVLN	VMSEDEVERR	0.5274	166.3	WB	8.00	Rv2711, TB
DRB1_0301	51	GLLRVAGDRHLELTE	LLRVAGDRH	0.5230	174.4	WB	8.00	Rv2711, TB
DRB1_0301	0	MNELVDTTTEMYLRTI	ELVDTTEMY	0.5226	175.1	WB	8.00	Rv2711, TB
DRB1_0301	50	DGLLRVAGDRHLELT	LLRVAGDRH	0.5223	175.7	WB	8.00	Rv2711, TB
DRB1_0301	70	LAIAVMRKHRLAERL	IAVMRKHRL	0.5053	211.1	WB	8.00	Rv2711, TB
DRB1_0301	172	HVQGDIDLITRLKDA	QGDIDLITR	0.5049	212.1	WB	8.00	Rv2711, TB
DRB1_0301	68	RALAIAVMRKHRLAE	IAVMRKHRL	0.5044	213.2	WB	8.00	Rv2711, TB
DRB1_0301	175	GDIDLITRLKDAGVV	IDLITRLKD	0.5027	217.2	WB	8.00	Rv2711, TB
DRB1_0301	176	DIDLITRLKDAGVVP	IDLITRLKD	0.4968	231.4	WB	8.00	Rv2711, TB
DRB1_0301	173	VQGDIDLITRLKDAG	VQGDIDLIT	0.4897	249.9	WB	8.00	Rv2711, TB
DRB1_0301	49	RDGLLRVAGDRHLEL	LLRVAGDRH	0.4867	258.2	WB	8.00	Rv2711, TB
DRB1_0301	174	QGDIDLITRLKDAGV	GDIDLITRL	0.4863	259.3	WB	8.00	Rv2711, TB
DRB1_0301	170	TEHVQGDIDLITRLK	VQGDIDLIT	0.4803	276.8	WB	8.00	Rv2711, TB
DRB1_0301	171	EHVQGDIDLITRLKD	VQGDIDLIT	0.4787	281.6	WB	16.00	Rv2711, TB
DRB1_0301	1	NELVDTTTEMYLRTIY	ELVDTTEMY	0.4770	286.9	WB	16.00	Rv2711, TB
DRB1_0301	69	ALAIAVMRKHRLAER	IAVMRKHRL	0.4744	294.8	WB	16.00	Rv2711, TB
DRB1_0301	44	VSRMERDGLLRVAGD	VSRMERDGL	0.4593	347.4	WB	16.00	Rv2711, TB
DRB1_0301	100	ACRWEHVMSDEVERR	HVMSDEVERR	0.4564	358.2	WB	16.00	Rv2711, TB
DRB1_0301	10	YLRTIYDLEEEGVTP	YLRTIYDLE	0.4457	402.3	WB	16.00	Rv2711, TB
DRB1_0301	43	TVSRMERDGLLRVAG	VSRMERDGL	0.4456	402.6	WB	16.00	Rv2711, TB
DRB1_0301	67	GRALAIAVMRKHRLA	RALAIAVMR	0.4442	409.0	WB	16.00	Rv2711, TB
DRB1_0301	177	IDLITRLKDAGVVPN	IDLITRLKD	0.4416	420.7	WB	16.00	Rv2711, TB
DRB1_0301	42	QTVSRMERDGLLRVA	VSRMERDGL	0.4263	496.6	WB	16.00	Rv2711, TB
DRB1_0301	169	LTEHVQGDIDLITRL	VQGDIDLIT	0.4248	504.5		16.00	Rv2711, TB
DRB1_0301	41	SQTVSRMERDGLLRV	SQTVSRMER	0.4231	513.7		16.00	Rv2711, TB
DRB1_0301	9	MYLRTIYDLEEEGVTP	YLRTIYDLE	0.4207	527.5		16.00	Rv2711, TB
DRB1_0301	75	MRKHRLAERLLVDVI	RKHRLAERL	0.4189	537.8		16.00	Rv2711, TB
DRB1_0301	8	EMYLRTIYDLEEEGV	YLRTIYDLE	0.4182	541.6		16.00	Rv2711, TB
DRB1_0301	66	KGRALAIAVMRKHRL	RALAIAVMR	0.4155	558.2		16.00	Rv2711, TB
DRB1_0301	74	VMRKHRLAERLLVDV	RKHRLAERL	0.4105	589.2		16.00	Rv2711, TB
DRB1_0301	76	RKHRLAERLLVDVIG	RKHRLAERL	0.4087	600.5		16.00	Rv2711, TB
DRB1_0301	7	TEMYLRTIYDLEEEGV	YLRTIYDLE	0.3973	679.6		16.00	Rv2711, TB
DRB1_0301	2	ELVDTTTEMYLRTIYD	ELVDTTEMY	0.3904	731.9		32.00	Rv2711, TB
DRB1_0301	48	ERDGLLRVAGDRHLE	LLRVAGDRH	0.3866	762.9		32.00	Rv2711, TB
DRB1_0301	73	AVMRKHRLAERLLVD	RKHRLAERL	0.3734	879.7		32.00	Rv2711, TB
DRB1_0301	81	AERLLVDVIGLPWEE	RLLVDVIGL	0.3711	901.6		32.00	Rv2711, TB
DRB1_0301	40	VSQTVSRMERDGLLR	SQTVSRMER	0.3687	926.2		32.00	Rv2711, TB
DRB1_0301	38	PTVSQTVSRMERDGL	SQTVSRMER	0.3634	979.8		32.00	Rv2711, TB
DRB1_0301	185	DAGVVPNARVTVETT	VVPNARVTV	0.3631	983.8		32.00	Rv2711, TB
DRB1_0301	78	HLAERLLVDVIGLPE	HLAERLLV	0.3608	1008.0		32.00	Rv2711, TB
DRB1_0301	80	LAERLLVDVIGLPWE	RLLVDVIGL	0.3569	1052.0		32.00	Rv2711, TB
DRB1_0301	46	RMERDGLLRVAGDRH	RMERDGLLR	0.3527	1100.1		32.00	Rv2711, TB
DRB1_0301	47	MERDGLLRVAGDRHL	LLRVAGDRH	0.3515	1115.2		32.00	Rv2711, TB
DRB1_0301	45	SRMERDGLLRVAGDR	RMERDGLLR	0.3499	1134.0		32.00	Rv2711, TB
DRB1_0301	178	DLITRLKDAGVVPNA	LITRLKDAG	0.3493	1142.0		32.00	Rv2711, TB
DRB1_0301	11	LRTIYDLEEEGVTPPL	IYDLEEEGV	0.3487	1149.4		32.00	Rv2711, TB
DRB1_0301	6	TTEMYLRTIYDLEEE	YLRTIYDLE	0.3473	1166.9		32.00	Rv2711, TB
DRB1_0301	79	RLAERLLVDVIGLPW	AERLLVDVI	0.3400	1262.3		32.00	Rv2711, TB
DRB1_0301	115	LVKVLNNPTTSPFNG	LVKVLNNPT	0.3381	1288.8		32.00	Rv2711, TB
DRB1_0301	77	KHRLAERLLVDVIGL	HRLAERLLV	0.3369	1306.2		32.00	Rv2711, TB
DRB1_0301	37	GPTVSQTVSRMERDGL	PTVSQTVSR	0.3329	1363.4		32.00	Rv2711, TB
DRB1_0301	211	HENVTLPHEMAHAVK	VTLPHEMAH	0.3278	1441.2		32.00	Rv2711, TB
DRB1_0301	99	EACRWEHVMSDEVERR	HVMSDEVERR	0.3268	1456.0		32.00	Rv2711, TB
DRB1_0301	65	EKGRALAIAVMRKHRL	RALAIAVMR	0.3266	1460.0		32.00	Rv2711, TB
DRB1_0301	59	RHLELTEKGRALAI	HLELTEKGR	0.3265	1461.6		32.00	Rv2711, TB
DRB1_0301	60	HLELTEKGRALAI	HLELTEKGR	0.3255	1476.6		32.00	Rv2711, TB
DRB1_0301	114	RLVKVLNNPTTSPFNG	LVKVLNNPT	0.3246	1491.1		32.00	Rv2711, TB

DRB1_0301	53	LRVAGDRHLELLETEKG	LRVAGDRHL	0.3239	1503.1	32.00	Rv2711, TB
DRB1_0301	212	ENVTLPHEMAHAVKV	VTLPHEMAH	0.3227	1523.0	32.00	Rv2711, TB
DRB1_0301	36	SGPTVSQTVSRMERD	PTVSQTVSR	0.3215	1542.6	32.00	Rv2711, TB
DRB1_0301	168	QLTEHVQGDIDLITR	VQGDIDLIT	0.3212	1547.0	32.00	Rv2711, TB
DRB1_0301	184	KDAGVVPNARVTVET	DAGVVPNAR	0.3204	1561.5	32.00	Rv2711, TB
DRB1_0301	204	VTIVIPGHENVTLPH	VTIVIPGHE	0.3201	1566.5	32.00	Rv2711, TB
DRB1_0301	58	DRHLELLETEKGRALAI	HLELLETEKGR	0.3196	1574.3	32.00	Rv2711, TB
DRB1_0301	113	RRLVKVLNNPTTSPF	LVKVLNNPT	0.3175	1610.0	32.00	Rv2711, TB
DRB1_0301	186	AGVVPNARVTVETTP	VVPNARVTV	0.3172	1616.5	32.00	Rv2711, TB
DRB1_0301	82	ERLLVDVIGLPWEEV	LLVDVIGLP	0.3084	1778.2	32.00	Rv2711, TB
DRB1_0301	39	TVSQTVSRMERDGLL	TVSQTVSRM	0.3065	1813.7	32.00	Rv2711, TB
DRB1_0301	187	GVPNARVTVETTPG	VVPNARVTV	0.3060	1824.7	32.00	Rv2711, TB
DRB1_0301	35	QSGPTVSQTVSRMER	PTVSQTVSR	0.3042	1861.0	32.00	Rv2711, TB
DRB1_0301	12	RTIYDLEEEGVTPPLR	IYDLEEEGV	0.3032	1880.6	32.00	Rv2711, TB
DRB1_0301	188	VVPNARVTVETTPGG	VVPNARVTV	0.2994	1960.2	50.00	Rv2711, TB
DRB1_0301	5	DTEMYLRTIYDLEE	YLRTIYDLE	0.2991	1966.1	50.00	Rv2711, TB
DRB1_0301	210	GHENVTLPHEMAHAV	ENVTLPHEM	0.2979	1991.5	50.00	Rv2711, TB
DRB1_0301	83	RLLDVIGLPWEEVH	RLLDVIGLP	0.2917	2130.4	50.00	Rv2711, TB
DRB1_0301	28	RIAERLDQSGPTVSQ	RIAERLDQS	0.2904	2160.8	50.00	Rv2711, TB
DRB1_0301	98	AEACRWEHVMSSE	CRWEHVMS	0.2894	2183.3	50.00	Rv2711, TB
DRB1_0301	179	LITRLKDGAVVPNAR	LITRLKDAG	0.2884	2208.0	50.00	Rv2711, TB
DRB1_0301	183	LKDAGVVPNARVTV	DAGVVPNAR	0.2870	2239.5	50.00	Rv2711, TB
DRB1_0301	203	GVTIVIPGHENVTL	VTIVIPGHE	0.2866	2251.3	50.00	Rv2711, TB
DRB1_0301	25	LRARIAERLDQSGPT	LRARIAERL	0.2824	2353.7	50.00	Rv2711, TB
DRB1_0301	57	GDRHLELLETEKGRAL	HLELLETEKGR	0.2823	2358.0	50.00	Rv2711, TB
DRB1_0301	13	TIYDLEEEGVTPPLR	IYDLEEEGV	0.2799	2418.5	50.00	Rv2711, TB
DRB1_0301	27	ARIAERLDQSGPTVS	RIAERLDQS	0.2773	2488.5	50.00	Rv2711, TB
DRB1_0301	112	ERLVKVLNNPTTSP	LVKVLNNPT	0.2731	2603.4	50.00	Rv2711, TB
DRB1_0301	182	RLKDAGVVPNARVTV	DAGVVPNAR	0.2726	2618.0	50.00	Rv2711, TB
DRB1_0301	24	PLRARIAERLDQSGP	PLRARIAER	0.2703	2684.1	50.00	Rv2711, TB
DRB1_0301	54	RVAGDRHLELLETEKGR	VAGDRHLEL	0.2692	2717.6	50.00	Rv2711, TB
DRB1_0301	213	NVTLPHEMAHAVKVE	VTLPHEMAH	0.2687	2732.4	50.00	Rv2711, TB
DRB1_0301	160	SPVAVVVRQLTEHVQ	VAVVVRQLT	0.2686	2732.8	50.00	Rv2711, TB
DRB1_0301	162	VAVVVRQLTEHVQGD	VAVVVRQLT	0.2675	2766.4	50.00	Rv2711, TB
DRB1_0301	3	LVDTEMYLRTIYDLE	LVDTEMYL	0.2674	2770.6	50.00	Rv2711, TB
DRB1_0301	161	PVAVVVRQLTEHVQGD	VAVVVRQLT	0.2641	2870.8	50.00	Rv2711, TB
DRB1_0301	26	RARIAERLDQSGPTV	RIAERLDQS	0.2605	2984.2	50.00	Rv2711, TB
DRB1_0301	55	VAGDRHLELLETEKGR	VAGDRHLEL	0.2603	2989.6	50.00	Rv2711, TB
DRB1_0301	167	RQLTEHVQGDIDLIT	VQGDIDLIT	0.2602	2994.0	50.00	Rv2711, TB
DRB1_0301	209	PGHENVTLPHEMAHA	ENVTLPHEM	0.2597	3011.7	50.00	Rv2711, TB
DRB1_0301	97	HAEACRWEHVMSSE	CRWEHVMS	0.2558	3141.2	50.00	Rv2711, TB
DRB1_0301	143	PGADDANLVRLTELP	ADDANLVRL	0.2511	3305.2	50.00	Rv2711, TB
DRB1_0301	159	GSPVAVVVRQLTEHV	VAVVVRQLT	0.2488	3389.2	50.00	Rv2711, TB
DRB1_0301	4	VDTTEMYLRTIYDLE	VDTTEMYLR	0.2485	3397.0	50.00	Rv2711, TB
DRB1_0301	202	GGVTIVIPGHENVTL	VTIVIPGHE	0.2483	3407.6	50.00	Rv2711, TB
DRB1_0301	144	GADDANLVRLTELPA	ADDANLVRL	0.2470	3455.7	50.00	Rv2711, TB
DRB1_0301	14	IYDLEEEGVTPPLR	IYDLEEEGV	0.2462	3483.7	50.00	Rv2711, TB
DRB1_0301	142	EPGADDANLVRLTEL	GADDANLVRL	0.2416	3660.9	50.00	Rv2711, TB
DRB1_0301	21	GVTPLRARIAERLDQ	GVTPLRARI	0.2407	3697.8	50.00	Rv2711, TB
DRB1_0301	164	VVRQLTEHVQGDID	VRQLTEHVQ	0.2379	3810.2	50.00	Rv2711, TB
DRB1_0301	34	DQSGPTVSQTVSRM	PTVSQTVSR	0.2373	3837.0	50.00	Rv2711, TB
DRB1_0301	116	VKVLNNPTTSPFGNP	VKVLNNPTT	0.2371	3845.2	50.00	Rv2711, TB
DRB1_0301	111	VERRLVKVLNNPTTS	LVKVLNNPT	0.2360	3891.3	50.00	Rv2711, TB
DRB1_0301	23	TPLRARIAERLDQSG	LRARIAERL	0.2346	3948.5	50.00	Rv2711, TB
DRB1_0301	214	VTLPHEMAHAVKVEK	LPHEMAHAV	0.2342	3965.8	50.00	Rv2711, TB
DRB1_0301	107	MSEDVERRLVKVLNN	MSEDVERRL	0.2336	3992.2	50.00	Rv2711, TB
DRB1_0301	166	VRQLTEHVQGDIDL	VRQLTEHVQ	0.2315	4083.2	50.00	Rv2711, TB
DRB1_0301	215	TLPHEMAHAVKVEKV	LPHEMAHAV	0.2290	4197.2	50.00	Rv2711, TB
DRB1_0301	163	AVVVRQLTEHVQGDI	VRQLTEHVQ	0.2276	4260.6	50.00	Rv2711, TB
DRB1_0301	110	DVERRLVKVLNNPTT	DVERRLVKV	0.2268	4295.6	50.00	Rv2711, TB
DRB1_0301	145	ADDANLVRLTELPAG	ADDANLVRL	0.2262	4325.4	50.00	Rv2711, TB
DRB1_0301	22	VTPLRARIAERLDQS	PLRARIAER	0.2242	4419.3	50.00	Rv2711, TB
DRB1_0301	96	VHAEACRWEHVMSSE	CRWEHVMS	0.2241	4424.6	50.00	Rv2711, TB
DRB1_0301	19	EEGVTPLRARIAERL	GVTPLRARI	0.2228	4486.9	50.00	Rv2711, TB
DRB1_0301	165	VVRQLTEHVQGDIDL	VRQLTEHVQ	0.2223	4511.8	50.00	Rv2711, TB
DRB1_0301	33	LDQSGPTVSQTVSRM	PTVSQTVSR	0.2217	4539.5	50.00	Rv2711, TB
DRB1_0301	56	AGDRHLELLETEKGRAL	HLELLETEKGR	0.2212	4565.4	50.00	Rv2711, TB
DRB1_0301	64	TEKGRALAIAMVRKH	RALAIAMVR	0.2193	4661.3	50.00	Rv2711, TB
DRB1_0301	140	GPEPGADDANLVRLT	GPEPGADDA	0.2158	4838.8	50.00	Rv2711, TB
DRB1_0301	20	EGVTPLRARIAERLD	GVTPLRARI	0.2157	4846.2	50.00	Rv2711, TB
DRB1_0301	180	ITRLKDAGVVPNARV	ITRLKDAGV	0.2150	4881.1	50.00	Rv2711, TB
DRB1_0301	109	EDVERRLVKVLNNPT	DVERRLVKV	0.2132	4981.3	50.00	Rv2711, TB
DRB1_0301	205	TIVIPGHENVTLPHE	IVIPGHENV	0.2119	5047.2	50.00	Rv2711, TB
DRB1_0301	29	IAERLDQSGPTVSQ	ERLDQSGPT	0.2109	5106.2	50.00	Rv2711, TB
DRB1_0301	208	IPGHENVTLPHEMAH	ENVTLPHEM	0.2106	5120.8	50.00	Rv2711, TB
DRB1_0301	189	VPNARVTVETTPGGG	VPNARVTV	0.2106	5122.0	50.00	Rv2711, TB
DRB1_0301	148	ANLVRLTELPAGSPV	LVRLTELPA	0.2050	5441.1	50.00	Rv2711, TB

DRB1_0301	149	NLVRLTELPAGSPVA	NLVRLTELP	0.2042	5486.6	50.00	Rv2711, TB
DRB1_0301	84	LLVDVIGLPWEEVHA	LLVDVIGLP	0.2031	5553.6	50.00	Rv2711, TB
DRB1_0301	95	EVHAEACRWEHVMS	AEACRWEHV	0.2006	5704.0	50.00	Rv2711, TB
DRB1_0301	30	AERLDQSGPTVSQTV	AERLDQSGP	0.2006	5706.3	50.00	Rv2711, TB
DRB1_0301	141	PEPGADDANLVRLTE	GADDANLVR	0.1994	5782.6	50.00	Rv2711, TB
DRB1_0301	61	LELTEKGRALAIIVM	LELTEKGRA	0.1987	5825.9	50.00	Rv2711, TB
DRB1_0301	108	SEDVERRLVKVLNNP	DVERRLVKV	0.1982	5854.8	50.00	Rv2711, TB
DRB1_0301	158	AGSPVAVVVRQLTEH	PVAVVVRQL	0.1973	5914.8	50.00	Rv2711, TB
DRB1_0301	32	RLDQSGPTVSQTVSR	LDQSGPTVS	0.1960	5998.0	50.00	Rv2711, TB
DRB1_0301	18	EEGVTPPLRARIAER	GVTPLRARI	0.1956	6022.8	50.00	Rv2711, TB
DRB1_0301	201	GGVTVIIPGHENV	VTIIPGHE	0.1940	6126.7	50.00	Rv2711, TB
DRB1_0301	206	IVIPGHENVTLPHEM	IVIPGHENV	0.1912	6315.9	50.00	Rv2711, TB
DRB1_0301	150	LVRLTELPAGSPVAV	LVRLTELP	0.1902	6384.8	50.00	Rv2711, TB
DRB1_0301	147	DANLVRLTELPAGSP	LVRLTELP	0.1828	6915.0	50.00	Rv2711, TB
DRB1_0301	31	ERLDQSGPTVSQTVS	LDQSGPTVS	0.1768	7380.0	50.00	Rv2711, TB
DRB1_0301	139	VGPEPGADDANLVRL	GPEPGADDA	0.1752	7508.2	50.00	Rv2711, TB
DRB1_0301	146	GDANLVRLTELPAGS	ANLVRLTEL	0.1744	7575.4	50.00	Rv2711, TB
DRB1_0301	62	ELTEKGRALAIIVMR	ELTEKGRAL	0.1737	7634.5	50.00	Rv2711, TB
DRB1_0301	181	TRLKDAGVVPNARVT	RLKDAGVVP	0.1737	7636.5	50.00	Rv2711, TB
DRB1_0301	17	LEEEGVTPLRARIAE	EEGVTPLRA	0.1727	7713.8	50.00	Rv2711, TB
DRB1_0301	63	LTEKGRALAIIVMRK	RALAIIVMR	0.1710	7858.2	50.00	Rv2711, TB
DRB1_0301	156	LPAGSPVAVVVRQLT	LPAGSPVAV	0.1662	8280.1	50.00	Rv2711, TB
DRB1_0301	191	NARVTVETTPGGGVT	NARVTVETT	0.1643	8449.6	50.00	Rv2711, TB
DRB1_0301	157	PAGSPVAVVVRQLTE	SPVAVVVRQ	0.1631	8561.5	50.00	Rv2711, TB
DRB1_0301	190	NARVTVETTPGGGV	NARVTVETT	0.1602	8832.7	50.00	Rv2711, TB
DRB1_0301	207	VIPGHENVTLPHEMA	ENVTLPHEM	0.1537	9476.6	50.00	Rv2711, TB
DRB1_0301	151	VRLTELPAGSPVAVV	RLTELPAGS	0.1532	9532.3	50.00	Rv2711, TB
DRB1_0301	16	DLEEEGVTPLRARIA	EEGVTPLRA	0.1472	10170.3	50.00	Rv2711, TB
DRB1_0301	138	KVGPPEPGADDANLVR	GPEPGADDA	0.1405	10933.3	50.00	Rv2711, TB
DRB1_0301	117	VLNNPTTSPFGNPI	KVLNNPTTS	0.1405	10933.5	50.00	Rv2711, TB
DRB1_0301	94	EEVHAEACRWEHVMS	EEVHAEACR	0.1387	11143.8	50.00	Rv2711, TB
DRB1_0301	134	LVELGVGPEPGADDA	LVELGVGPE	0.1380	11232.3	50.00	Rv2711, TB
DRB1_0301	155	ELPAGSPVAVVVRQL	LPAGSPVAV	0.1355	11540.1	50.00	Rv2711, TB
DRB1_0301	200	GGGGVTIIPGHENV	VTIIPGHE	0.1257	12832.4	50.00	Rv2711, TB
DRB1_0301	15	YDLEEEGVTPLRARI	EEGVTPLRA	0.1254	12876.4	50.00	Rv2711, TB
DRB1_0301	133	GLVELGVGPEPGADD	LVELGVGPE	0.1212	13472.7	50.00	Rv2711, TB
DRB1_0301	152	RLTELPAGSPVAVVV	RLTELPAGS	0.1163	14206.9	50.00	Rv2711, TB
DRB1_0301	93	WEEVHAEACRWEHV	EEVHAEACR	0.1160	14250.7	50.00	Rv2711, TB
DRB1_0301	137	LGVGPEPGADDANLV	GPEPGADDA	0.1122	14857.9	50.00	Rv2711, TB
DRB1_0301	154	TELPAGSPVAVVVRQ	LPAGSPVAV	0.1111	15033.5	50.00	Rv2711, TB
DRB1_0301	132	PGLEVELGVGPEPGAD	LVELGVGPE	0.1103	15163.7	50.00	Rv2711, TB
DRB1_0301	131	IPGLVELGVGPEPGA	LVELGVGPE	0.1091	15351.7	50.00	Rv2711, TB
DRB1_0301	88	VIGLPWEEVHAEACR	LPWEEVHAE	0.1010	16756.4	50.00	Rv2711, TB
DRB1_0301	153	LTELPAGSPVAVVVR	LPAGSPVAV	0.1005	16846.6	50.00	Rv2711, TB
DRB1_0301	85	LVDVIGLPWEEVHAE	LVDVIGLPW	0.0996	17028.2	50.00	Rv2711, TB
DRB1_0301	125	SPFGNPIPGLVELGV	FGNPIPGLV	0.0976	17389.6	50.00	Rv2711, TB
DRB1_0301	135	VELGVGPEPGADDAN	LGVGPEPGA	0.0927	18330.7	50.00	Rv2711, TB
DRB1_0301	91	LPWEEVHAEACRWEH	LPWEEVHAE	0.0924	18393.4	50.00	Rv2711, TB
DRB1_0301	124	TSPFGNPIPGLVELG	FGNPIPGLV	0.0920	18475.8	50.00	Rv2711, TB
DRB1_0301	92	PWEEVHAEACRWEHV	EEVHAEACR	0.0911	18661.2	50.00	Rv2711, TB
DRB1_0301	89	IGLWEEVHAEACRWE	LPWEEVHAE	0.0911	18669.1	50.00	Rv2711, TB
DRB1_0301	86	VIGLPWEEVHAEACR	VIGLPWEEV	0.0900	18890.0	50.00	Rv2711, TB
DRB1_0301	136	ELGVGPEPGADDANL	LGVGPEPGA	0.0898	18927.8	50.00	Rv2711, TB
DRB1_0301	126	PFGNPIPGLVELGVG	FGNPIPGLV	0.0866	19591.9	50.00	Rv2711, TB
DRB1_0301	127	FGNPIPGLVELGVGP	FGNPIPGLV	0.0863	19647.3	50.00	Rv2711, TB
DRB1_0301	123	TTSPFGNPIPGLVEL	FGNPIPGLV	0.0847	19998.8	50.00	Rv2711, TB
DRB1_0301	87	VDVIGLPWEEVHAEAC	VIGLPWEEV	0.0840	20157.4	50.00	Rv2711, TB
DRB1_0301	90	GLPWEEVHAEACRWE	LPWEEVHAE	0.0820	20586.6	50.00	Rv2711, TB
DRB1_0301	199	TPGGGVTIIPGHENV	VTIIPGHE	0.0787	21343.4	50.00	Rv2711, TB
DRB1_0301	118	VLNNPTTSPFGNPIP	LNNPTTSPF	0.0782	21460.4	50.00	Rv2711, TB
DRB1_0301	192	ARVTVETTPGGGVTI	ARVTVETTP	0.0763	21905.6	50.00	Rv2711, TB
DRB1_0301	130	PIPGLVELGVGPEPG	IPGLVELGV	0.0758	22015.9	50.00	Rv2711, TB
DRB1_0301	122	PTTSPFGNPIPGLVE	FGNPIPGLV	0.0670	24224.9	50.00	Rv2711, TB
DRB1_0301	129	NPIPGLVELGVGPEP	IPGLVELGV	0.0669	24252.1	50.00	Rv2711, TB
DRB1_0301	193	RVTVETTPGGGVTI	RVTVETTPG	0.0656	24588.2	50.00	Rv2711, TB
DRB1_0301	121	NPTTSPFGNPIPGLV	NPTTSPFGN	0.0636	25128.5	50.00	Rv2711, TB
DRB1_0301	195	TVETTPGGGVTIIPG	TVETTPGGG	0.0612	25799.9	50.00	Rv2711, TB
DRB1_0301	194	VTVETTPGGGVTI	TVETTPGGG	0.0595	26263.5	50.00	Rv2711, TB
DRB1_0301	198	TTTGGGVTIIPGHE	VTIIPGHE	0.0590	26417.1	50.00	Rv2711, TB
DRB1_0301	119	LNNPTTSPFGNPIP	LNNPTTSPF	0.0584	26589.8	50.00	Rv2711, TB
DRB1_0301	120	NNPTTSPFGNPIPGL	NPTTSPFGN	0.0564	27167.6	50.00	Rv2711, TB
DRB1_0301	128	GNPIPGLVELGVGPE	IPGLVELGV	0.0556	27387.2	50.00	Rv2711, TB
DRB1_0301	196	VETTPGGGVTIIPG	VETTPGGGV	0.0447	30816.6	50.00	Rv2711, TB
DRB1_0301	197	ETTPGGGVTIIPGH	ETTPGGGVT	0.0432	31319.8	50.00	Rv2711, TB

Allele: DRB1\_0301. Number of high binders 0. Number of weak binders 31. Number of peptides 216

Allele	pos	peptide	core	1-log50k(aff)	affinity(nM)	Bind	Level	%Random	Identity
DRB1_0401	113	RRLVKVLNNPTTSPF	VKVLNNPTT	0.8348	6.0	SB		0.10	Rv2711, TB
DRB1_0401	112	ERRLVKVLNNPTTSP	RRLVKVLNN	0.8224	6.8	SB		0.10	Rv2711, TB
DRB1_0401	111	VERRLVKVLNNPTTS	RRLVKVLNN	0.7984	8.9	SB		0.20	Rv2711, TB
DRB1_0401	114	RLVKVLNNPTTSPFG	VKVLNNPTT	0.7813	10.7	SB		0.30	Rv2711, TB
DRB1_0401	110	DVERRLVKVLNNPTT	RRLVKVLNN	0.7688	12.2	SB		0.40	Rv2711, TB
DRB1_0401	115	LVKVLNNPTTSPFGN	VKVLNNPTT	0.7273	19.1	SB		1.00	Rv2711, TB
DRB1_0401	109	EDVERRLVKVLNNPT	RRLVKVLNN	0.6913	28.2	SB		2.00	Rv2711, TB
DRB1_0401	116	VKVLNNPTTSPFGNP	VKVLNNPTT	0.6011	74.9	WB		8.00	Rv2711, TB
DRB1_0401	108	SEVERRLVKVLNNP	RRLVKVLNN	0.5902	84.2	WB		8.00	Rv2711, TB
DRB1_0401	66	KGRALAIAVMRKHRL	RALAIAVMR	0.5481	132.9	WB		16.00	Rv2711, TB
DRB1_0401	65	EKGRALAIAVMRKHR	RALAIAVMR	0.5457	136.4	WB		16.00	Rv2711, TB
DRB1_0401	149	NLVRRLTELPAGSPVA	LVRLTELPA	0.5375	149.1	WB		16.00	Rv2711, TB
DRB1_0401	67	GRALAIAVMRKHRLA	RALAIAVMR	0.5315	159.0	WB		16.00	Rv2711, TB
DRB1_0401	150	LVRLTELPAGSPVAV	LVRLTELPA	0.5151	189.9	WB		16.00	Rv2711, TB
DRB1_0401	148	ANLVRRLTELPAGSPV	LVRLTELPA	0.5094	202.0	WB		16.00	Rv2711, TB
DRB1_0401	68	RALAIAVMRKHRLAE	RALAIAVMR	0.4911	246.2	WB		16.00	Rv2711, TB
DRB1_0401	64	TEKGRALAIAVMRKH	RALAIAVMR	0.4786	281.8	WB		32.00	Rv2711, TB
DRB1_0401	81	AERLLVDVIGLPWEE	RLLVDVIGL	0.4764	288.7	WB		32.00	Rv2711, TB
DRB1_0401	147	DANLVRRLTELPAGSP	LVRLTELPA	0.4721	302.4	WB		32.00	Rv2711, TB
DRB1_0401	82	ERLLVDVIGLPWEEV	RLLVDVIGL	0.4697	310.4	WB		32.00	Rv2711, TB
DRB1_0401	80	LAERLLVDVIGLPWE	RLLVDVIGL	0.4636	331.6	WB		32.00	Rv2711, TB
DRB1_0401	79	RLAERLLVDVIGLPW	RLLVDVIGL	0.4523	374.6	WB		32.00	Rv2711, TB
DRB1_0401	83	RLLVDVIGLPWEEVH	RLLVDVIGL	0.4503	382.7	WB		32.00	Rv2711, TB
DRB1_0401	179	LITRLKLDAGVVPNAR	RLKLDAGVVP	0.4428	415.1	WB		32.00	Rv2711, TB
DRB1_0401	78	HRLAERLLVDVIGL	RLLVDVIGL	0.4384	435.6	WB		32.00	Rv2711, TB
DRB1_0401	178	DLITRLKLDAGVVPNA	RLKLDAGVVP	0.4316	468.5	WB		32.00	Rv2711, TB
DRB1_0401	107	MSSEVERRLVKVLNN	RRLVKVLNN	0.4289	482.8	WB		32.00	Rv2711, TB
DRB1_0401	151	VRLTELPAGSPVAVV	RLTELPAGS	0.4193	535.5			32.00	Rv2711, TB
DRB1_0401	8	EMYLRTIYDLEEEGV	EMYLRTIYD	0.4118	580.6			32.00	Rv2711, TB
DRB1_0401	77	KHRLAERLLVDVIGL	RLLVDVIGL	0.4114	583.0			32.00	Rv2711, TB
DRB1_0401	7	TEMYLRTIYDLEEEG	EMYLRTIYD	0.4032	637.5			32.00	Rv2711, TB
DRB1_0401	177	IDLITRLKLDAGVVPN	LITRLKLDAG	0.4029	639.0			32.00	Rv2711, TB
DRB1_0401	63	LTEKGRALAIAVMRK	RALAIAVMR	0.4021	645.0			32.00	Rv2711, TB
DRB1_0401	180	ITRLKLDAGVVPNARV	RLKLDAGVVP	0.4018	647.2			32.00	Rv2711, TB
DRB1_0401	181	TRLKLDAGVVPNARVT	RLKLDAGVVP	0.4012	651.1			32.00	Rv2711, TB
DRB1_0401	146	DDANLVRRLTELPAGS	LVRLTELPA	0.3987	669.1			32.00	Rv2711, TB
DRB1_0401	210	GHENVTLPHEMAHAV	GHENVTLP	0.3982	672.9			32.00	Rv2711, TB
DRB1_0401	182	RLKLDAGVVPNARVTV	RLKLDAGVVP	0.3847	778.8			50.00	Rv2711, TB
DRB1_0401	117	KVLNNPTTSPFGNPI	KVLNNPTTS	0.3800	819.0			50.00	Rv2711, TB
DRB1_0401	209	PGHENVTLPHEMAHA	GHENVTLP	0.3761	854.5			50.00	Rv2711, TB
DRB1_0401	6	TEMYLRTIYDLEEE	EMYLRTIYD	0.3756	859.4			50.00	Rv2711, TB
DRB1_0401	49	RDGLLRVAGDRHLE	LLRVAGDRH	0.3620	995.6			50.00	Rv2711, TB
DRB1_0401	5	TEMYLRTIYDLEE	EMYLRTIYD	0.3612	1004.1			50.00	Rv2711, TB
DRB1_0401	46	RMERDGLLRVAGDRH	RMERDGLLR	0.3607	1009.6			50.00	Rv2711, TB
DRB1_0401	208	IPGHENVTLPHEMAH	GHENVTLP	0.3605	1012.0			50.00	Rv2711, TB
DRB1_0401	176	DIDLITRLKLDAGVVP	LITRLKLDAG	0.3561	1060.7			50.00	Rv2711, TB
DRB1_0401	50	DGLLRVAGDRHLELT	LLRVAGDRH	0.3546	1078.4			50.00	Rv2711, TB
DRB1_0401	45	SRMERDGLLRVAGDR	RMERDGLLR	0.3544	1080.8			50.00	Rv2711, TB
DRB1_0401	51	GLLRVAGDRHLELTE	LLRVAGDRH	0.3473	1166.3			50.00	Rv2711, TB
DRB1_0401	76	RKHRLAERLLVDVIG	RLAERLLVD	0.3470	1170.2			50.00	Rv2711, TB
DRB1_0401	10	YLRTIYDLEEEGVTP	LRTIYDLEE	0.3464	1178.7			50.00	Rv2711, TB
DRB1_0401	44	VSRMERDGLLRVAGD	RMERDGLLR	0.3444	1204.5			50.00	Rv2711, TB
DRB1_0401	162	VAVVVRQLTEHVQGD	VVVRQLTEH	0.3431	1221.7			50.00	Rv2711, TB
DRB1_0401	173	VQGDIDLIITRLKLDAG	VQGDIDLIT	0.3428	1224.5			50.00	Rv2711, TB
DRB1_0401	100	ACRWEHVMSSEDDVER	WEHVMSSE	0.3428	1224.5			50.00	Rv2711, TB
DRB1_0401	9	MYLRTIYDLEEEGV	LRTIYDLEE	0.3428	1224.7			50.00	Rv2711, TB
DRB1_0401	75	MRKHRLAERLLVDVI	RLAERLLVD	0.3418	1238.5			50.00	Rv2711, TB
DRB1_0401	62	ELTEKGRALAIAVMR	RALAIAVMR	0.3382	1287.0			50.00	Rv2711, TB
DRB1_0401	190	PNARVTVETTPGGGV	RVTVETTPG	0.3356	1323.8			50.00	Rv2711, TB
DRB1_0401	103	WEHVMSSEDDVERRLV	WEHVMSSE	0.3333	1357.5			50.00	Rv2711, TB
DRB1_0401	191	NARVTVETTPGGGV	RVTVETTPG	0.3329	1363.3			50.00	Rv2711, TB
DRB1_0401	161	PVAVVVRQLTEHVQG	VVVRQLTEH	0.3327	1366.3			50.00	Rv2711, TB
DRB1_0401	163	AVVVRQLTEHVQGDI	VVVRQLTEH	0.3317	1382.0			50.00	Rv2711, TB
DRB1_0401	207	VIPGHENVTLPHEMA	GHENVTLP	0.3306	1398.4			50.00	Rv2711, TB
DRB1_0401	52	LLRVAGDRHLELTEK	LLRVAGDRH	0.3296	1412.6			50.00	Rv2711, TB
DRB1_0401	48	ERDGLLRVAGDRHLE	LLRVAGDRH	0.3249	1487.1			50.00	Rv2711, TB
DRB1_0401	43	TVSRMERDGLLRVAG	RMERDGLLR	0.3171	1618.0			50.00	Rv2711, TB
DRB1_0401	102	RWEHVMSSEDDVERRL	WEHVMSSE	0.3158	1641.0			50.00	Rv2711, TB
DRB1_0401	74	VMRKHRLAERLLVDV	HRLAERLLV	0.3137	1679.2			50.00	Rv2711, TB
DRB1_0401	152	RLTELPAGSPVAVVV	RLTELPAGS	0.3102	1744.1			50.00	Rv2711, TB
DRB1_0401	57	GDRHLELTEKGRALA	RHLELTEKG	0.3098	1751.3			50.00	Rv2711, TB
DRB1_0401	101	CRWEHVMSSEDDVERL	WEHVMSSE	0.3090	1766.8			50.00	Rv2711, TB

DRB1_0401	58	DRHLELTEKGRALAI	RHLELTEKKG	0.3083	1778.8	50.00	Rv2711, TB
DRB1_0401	4	VDTEMYLRTIYDLE	EMYLRTIYD	0.3076	1792.6	50.00	Rv2711, TB
DRB1_0401	59	RHLELTEKGRALAI	RHLELTEKKG	0.3068	1809.3	50.00	Rv2711, TB
DRB1_0401	192	ARVTVETTPGGVTTI	RVTVETTPG	0.3060	1824.1	50.00	Rv2711, TB
DRB1_0401	145	ADDANLVRLTELPAG	LVRLTELPA	0.3060	1825.0	50.00	Rv2711, TB
DRB1_0401	164	VVVRQLTEHVQGDID	VVVRQLTEH	0.3059	1827.0	50.00	Rv2711, TB
DRB1_0401	172	HVQGDIDLITRLKDA	VQGDIDLIT	0.3052	1840.0	50.00	Rv2711, TB
DRB1_0401	56	AGDRHLELTEKGRAL	RHLELTEKKG	0.3037	1871.0	50.00	Rv2711, TB
DRB1_0401	53	LRVAGDRHLELTEKKG	RHLELTEKKG	0.3029	1886.3	50.00	Rv2711, TB
DRB1_0401	215	TLPHMAHAVKVEKV	HEMAHAVKV	0.3019	1906.7	50.00	Rv2711, TB
DRB1_0401	69	ALAIAMVRKHRLAER	LAIAMVRKH	0.3004	1938.9	50.00	Rv2711, TB
DRB1_0401	104	EHVMSDEVERRLVKV	EHVMSEDVE	0.3002	1941.7	50.00	Rv2711, TB
DRB1_0401	171	EHVQGDIDLITRLKD	VQGDIDLIT	0.2999	1949.1	50.00	Rv2711, TB
DRB1_0401	189	VPNARVTVETTPGGG	RVTVETTPG	0.2989	1968.9	50.00	Rv2711, TB
DRB1_0401	99	EACRWEHVMSSEDVER	WEHVMSEDV	0.2981	1987.8	50.00	Rv2711, TB
DRB1_0401	214	VTLPHEMAHAVKVEK	HEMAHAVKV	0.2930	2099.7	50.00	Rv2711, TB
DRB1_0401	160	SPVAVVVRQLTEHVQ	VVVRQLTEH	0.2929	2102.5	50.00	Rv2711, TB
DRB1_0401	175	GDIDLITRLKDAGVV	LITRLKDAG	0.2926	2109.8	50.00	Rv2711, TB
DRB1_0401	28	RIAERLDQSGPTVSQ	RIAERLDQS	0.2902	2164.5	50.00	Rv2711, TB
DRB1_0401	11	LRTIYDLEEEGVTP	LRTIYDLEE	0.2901	2167.7	50.00	Rv2711, TB
DRB1_0401	47	MERDGLLRVAGDRHL	LLRVAGDRH	0.2886	2201.0	50.00	Rv2711, TB
DRB1_0401	170	TEHVQGDIDLITRLK	VQGDIDLIT	0.2867	2248.2	50.00	Rv2711, TB
DRB1_0401	211	HENVTLPHMAHAVK	NVTLPHEMA	0.2863	2258.4	50.00	Rv2711, TB
DRB1_0401	55	VAGDRHLELTEKGRA	RHLELTEKKG	0.2863	2258.8	50.00	Rv2711, TB
DRB1_0401	2	ELVDTTEMYLRTIYD	ELVDTTEMY	0.2858	2270.7	50.00	Rv2711, TB
DRB1_0401	213	NVTLPHEMAHAVKVE	NVTLPHEMA	0.2822	2361.2	50.00	Rv2711, TB
DRB1_0401	70	LAIAMVRKHRLAERL	LAIAMVRKH	0.2795	2429.5	50.00	Rv2711, TB
DRB1_0401	193	RVTVETTPGGGVTTIV	RVTVETTPG	0.2795	2431.2	50.00	Rv2711, TB
DRB1_0401	206	IVIPGHENVTLPHM	GHENVTLPH	0.2793	2435.0	50.00	Rv2711, TB
DRB1_0401	73	AVMRKHRLAERLLVD	MRKHRLAER	0.2773	2488.5	50.00	Rv2711, TB
DRB1_0401	27	ARIAERLDQSGPTVS	RIAERLDQS	0.2730	2606.5	50.00	Rv2711, TB
DRB1_0401	42	QTVSRMERDGLLRVA	RMERDGLLR	0.2728	2612.9	50.00	Rv2711, TB
DRB1_0401	144	GADDANLVRLTELP	LVRLTELPA	0.2689	2726.7	50.00	Rv2711, TB
DRB1_0401	212	ENVTLPHMAHAVKV	NVTLPHEMA	0.2686	2732.7	50.00	Rv2711, TB
DRB1_0401	188	VPNARVTVETTPGG	RVTVETTPG	0.2683	2743.2	50.00	Rv2711, TB
DRB1_0401	26	RARIAERLDQSGPTV	RIAERLDQS	0.2677	2761.2	50.00	Rv2711, TB
DRB1_0401	37	GPTVSQTVSRMERD	PTVSQTVSR	0.2656	2823.7	50.00	Rv2711, TB
DRB1_0401	98	AEACRWEHVMSSED	ACRWEHVMS	0.2651	2840.7	50.00	Rv2711, TB
DRB1_0401	38	PTVSQTVSRMERDGL	PTVSQTVSR	0.2637	2882.3	50.00	Rv2711, TB
DRB1_0401	36	SGPTVSQTVSRMERD	PTVSQTVSR	0.2602	2993.5	50.00	Rv2711, TB
DRB1_0401	25	LRARIAERLDQSGPT	RIAERLDQS	0.2595	3016.0	50.00	Rv2711, TB
DRB1_0401	12	RTIYDLEEEGVTP	RTIYDLEEE	0.2588	3039.0	50.00	Rv2711, TB
DRB1_0401	72	IAMVRKHRLAERLLV	MRKHRLAER	0.2588	3040.5	50.00	Rv2711, TB
DRB1_0401	174	QGDIDLITRLKDAGV	LITRLKDAG	0.2570	3098.5	50.00	Rv2711, TB
DRB1_0401	54	RVAGDRHLELTEKGR	RHLELTEKKG	0.2567	3108.8	50.00	Rv2711, TB
DRB1_0401	0	MNELVDTTEMYLRTI	ELVDTTEMY	0.2564	3121.0	50.00	Rv2711, TB
DRB1_0401	205	TIVIPGHENVTLPH	GHENVTLPH	0.2559	3136.6	50.00	Rv2711, TB
DRB1_0401	1	NELVDTTEMYLRTIY	ELVDTTEMY	0.2526	3251.9	50.00	Rv2711, TB
DRB1_0401	3	LVDTEMYLRTIYDL	EMYLRTIYD	0.2484	3401.1	50.00	Rv2711, TB
DRB1_0401	84	LLVDVIGLPEEVHA	LLVDVIGLP	0.2449	3534.4	50.00	Rv2711, TB
DRB1_0401	19	EEGVTPLRARIAERL	EEGVTPLRA	0.2415	3667.5	50.00	Rv2711, TB
DRB1_0401	71	AIAMVRKHRLAERLL	IAMVRKHRL	0.2409	3690.8	50.00	Rv2711, TB
DRB1_0401	35	QSGPTVSQTVSRMER	PTVSQTVSR	0.2406	3700.5	50.00	Rv2711, TB
DRB1_0401	165	VVRQLTEHVQGDIDL	VVRQLTEHV	0.2398	3732.9	50.00	Rv2711, TB
DRB1_0401	131	IPGLVELGVGPEPGA	GLVELGVGP	0.2393	3752.4	50.00	Rv2711, TB
DRB1_0401	159	GSPVAVVVRQLTEHV	VVVRQLTEH	0.2385	3785.6	50.00	Rv2711, TB
DRB1_0401	97	HAEACRWEHVMSSED	ACRWEHVMS	0.2373	3837.0	50.00	Rv2711, TB
DRB1_0401	169	LTEHVQGDIDLITRL	EHVQGDIDL	0.2355	3913.2	50.00	Rv2711, TB
DRB1_0401	183	LKDAGVVPNARVTVE	LKDAGVVPN	0.2341	3970.1	50.00	Rv2711, TB
DRB1_0401	41	SQTVSRMERDGLLRV	RMERDGLLR	0.2336	3993.9	50.00	Rv2711, TB
DRB1_0401	132	GLVELGVGPEPGAD	GLVELGVGP	0.2322	4052.8	50.00	Rv2711, TB
DRB1_0401	29	IAERLDQSGPTVSQT	ERLDQSGPT	0.2316	4081.9	50.00	Rv2711, TB
DRB1_0401	105	HVMSDEVERRLVKVL	HVMSDEV	0.2298	4159.6	50.00	Rv2711, TB
DRB1_0401	31	ERLDQSGPTVSQTVS	ERLDQSGPT	0.2295	4173.8	50.00	Rv2711, TB
DRB1_0401	24	PLRARIAERLDQSGP	RIAERLDQS	0.2292	4188.1	50.00	Rv2711, TB
DRB1_0401	130	P1PGLVELGVGPEPG	GLVELGVGP	0.2266	4308.6	50.00	Rv2711, TB
DRB1_0401	187	GVVVPNARVTVETTPG	NARVTVETT	0.2254	4365.2	50.00	Rv2711, TB
DRB1_0401	22	VTPLRARIAERLDQS	RIAERLDQS	0.2230	4476.1	50.00	Rv2711, TB
DRB1_0401	18	EEEGVTPLRARIAER	VTPLRARIA	0.2218	4534.9	50.00	Rv2711, TB
DRB1_0401	16	DLEEGVTPLRARIAER	DLEEGVTP	0.2217	4541.7	50.00	Rv2711, TB
DRB1_0401	30	AERLDQSGPTVSQTV	ERLDQSGPT	0.2207	4591.1	50.00	Rv2711, TB
DRB1_0401	90	GLPWEEVHAEACRWE	GLPWEEVHA	0.2171	4771.0	50.00	Rv2711, TB
DRB1_0401	61	LELTEKGRALAIAM	KGRALAIAM	0.2161	4825.5	50.00	Rv2711, TB
DRB1_0401	87	DVIGLPEEVHAEACR	GLPWEEVHA	0.2156	4849.6	50.00	Rv2711, TB
DRB1_0401	88	VIGLPEEVHAEACR	GLPWEEVHA	0.2153	4864.9	50.00	Rv2711, TB
DRB1_0401	200	PGGGVTIVIPGHENV	GGGVTIVIP	0.2139	4940.8	50.00	Rv2711, TB
DRB1_0401	23	TPLRARIAERLDQSG	LRARIAERL	0.2139	4943.2	50.00	Rv2711, TB



DRB1_0401	168	QLTEHVQGDIDLITR	EHVQGDIDL	0.2119	5047.8	50.00	Rv2711, TB
DRB1_0401	204	VTIVIPGHENVTLPH	TIVIPGHEN	0.2116	5068.2	50.00	Rv2711, TB
DRB1_0401	201	GGGVTVIVIPGHENVT	GGGVTVIVIP	0.2113	5081.5	50.00	Rv2711, TB
DRB1_0401	85	LVDVIGLPWEEVHAE	GLPWEEVHA	0.2101	5148.0	50.00	Rv2711, TB
DRB1_0401	13	TIYDLEEEGVTPPLRA	DLEEEGVTP	0.2099	5157.6	50.00	Rv2711, TB
DRB1_0401	15	YDLEEEGVTPPLRARI	YDLEEEGVTP	0.2073	5309.1	50.00	Rv2711, TB
DRB1_0401	14	IYDLEEEGVTPPLRAR	DLEEEGVTP	0.2061	5374.9	50.00	Rv2711, TB
DRB1_0401	89	GLPWEEVHAEACRW	GLPWEEVHA	0.2053	5422.4	50.00	Rv2711, TB
DRB1_0401	96	VHAEACRWEHVMS	ACRWEHVMS	0.2039	5508.1	50.00	Rv2711, TB
DRB1_0401	32	RLDQSGPTVSQTVSR	RLDQSGPTV	0.1991	5797.6	50.00	Rv2711, TB
DRB1_0401	86	VDVIGLPWEEVHAEA	GLPWEEVHA	0.1983	5849.7	50.00	Rv2711, TB
DRB1_0401	17	LEEEGVTPPLRARIAE	EEGVTPPLRA	0.1969	5939.8	50.00	Rv2711, TB
DRB1_0401	21	GVTPPLRARIERLDQ	VTPLRARIA	0.1967	5953.3	50.00	Rv2711, TB
DRB1_0401	133	GLVELGVGPEPGADD	GLVELGVGP	0.1954	6034.6	50.00	Rv2711, TB
DRB1_0401	202	GGVTIVIPGHENVTL	TIVIPGHEN	0.1944	6104.8	50.00	Rv2711, TB
DRB1_0401	20	EGVTPPLRARIAERLD	VTPLRARIA	0.1941	6120.6	50.00	Rv2711, TB
DRB1_0401	34	KDQSGPTVSQTVSRME	PTVSQTVSR	0.1907	6354.0	50.00	Rv2711, TB
DRB1_0401	199	TPGGGVTVIVIPGHEN	GGGVTVIVIP	0.1889	6478.0	50.00	Rv2711, TB
DRB1_0401	95	EVHAEACRWEHVMS	ACRWEHVMS	0.1872	6599.1	50.00	Rv2711, TB
DRB1_0401	40	VSQTVSRMERDGLLR	RMERDGLLR	0.1842	6814.7	50.00	Rv2711, TB
DRB1_0401	118	VLNNPTTSPFGNPIP	VLNNPTTSP	0.1833	6878.3	50.00	Rv2711, TB
DRB1_0401	129	NPIPGLVELGVGPEP	GLVELGVGP	0.1830	6903.4	50.00	Rv2711, TB
DRB1_0401	153	LTELPAGSPVAVVVR	LTELPAGSP	0.1814	7025.9	50.00	Rv2711, TB
DRB1_0401	167	RQLTEHVQGDIDLIT	EHVQGDIDL	0.1809	7058.5	50.00	Rv2711, TB
DRB1_0401	33	LDQSGPTVSQTVSRM	PTVSQTVSR	0.1781	7277.7	50.00	Rv2711, TB
DRB1_0401	186	AGVVPNARVTVETTP	VVPNARVTV	0.1781	7282.1	50.00	Rv2711, TB
DRB1_0401	143	PGADDANLVRLELTEL	GADDANLVR	0.1778	7301.5	50.00	Rv2711, TB
DRB1_0401	203	GVTVIVIPGHENVTL	TIVIPGHEN	0.1769	7376.6	50.00	Rv2711, TB
DRB1_0401	185	DAGVVPNARVTVET	DAGVVPNAR	0.1763	7418.7	50.00	Rv2711, TB
DRB1_0401	184	KDAGVVPNARVTVET	DAGVVPNAR	0.1741	7602.5	50.00	Rv2711, TB
DRB1_0401	94	EEVHAEACRWEHVMS	ACRWEHVMS	0.1734	7662.3	50.00	Rv2711, TB
DRB1_0401	158	AGSPVAVVVRQLTEH	VVVRQLTEH	0.1725	7731.0	50.00	Rv2711, TB
DRB1_0401	106	VMSEDEVERRLVKVLN	VMSEDEVRR	0.1721	7763.5	50.00	Rv2711, TB
DRB1_0401	141	PEPGADDANLVRLEL	GADDANLVR	0.1709	7868.7	50.00	Rv2711, TB
DRB1_0401	166	VRLTEHVQGDIDLIT	RQLTEHVQGD	0.1699	7953.5	50.00	Rv2711, TB
DRB1_0401	60	HLELTEKGRALAIIV	KGRALAIIV	0.1682	8100.5	50.00	Rv2711, TB
DRB1_0401	142	EPGADDANLVRLELTEL	GADDANLVR	0.1675	8163.3	50.00	Rv2711, TB
DRB1_0401	198	TTPGGGVTVIVIPGHE	GGGVTVIVIP	0.1656	8336.7	50.00	Rv2711, TB
DRB1_0401	124	TSPFNGNPIPLVELG	PFGNPIPGL	0.1483	10048.9	50.00	Rv2711, TB
DRB1_0401	128	GNPIPGLVELGVGPE	GLVELGVGP	0.1454	10370.3	50.00	Rv2711, TB
DRB1_0401	140	GPEPGADDANLVRLEL	GADDANLVR	0.1445	10468.3	50.00	Rv2711, TB
DRB1_0401	123	TSPFNGNPIPLVELG	SPFNGNPIG	0.1440	10525.7	50.00	Rv2711, TB
DRB1_0401	39	TVSQTVSRMERDGLL	TVSQTVSRM	0.1434	10595.0	50.00	Rv2711, TB
DRB1_0401	122	PTSPFNGNPIPLVELG	SPFNGNPIG	0.1375	11289.6	50.00	Rv2711, TB
DRB1_0401	197	ETTPGGGVTVIVIPGH	PGGGVTIVI	0.1335	11792.5	50.00	Rv2711, TB
DRB1_0401	121	NPTTSPFNGNPIPLV	TSPFNGNPI	0.1333	11823.9	50.00	Rv2711, TB
DRB1_0401	194	VTVETTPGGGVTVIVI	VTVETTPGG	0.1332	11829.6	50.00	Rv2711, TB
DRB1_0401	125	SPFNGNPIPLVELGV	PFGNPIPGL	0.1324	11940.1	50.00	Rv2711, TB
DRB1_0401	91	LPWEEVHAEACRWEH	EEVHAEACR	0.1263	12750.4	50.00	Rv2711, TB
DRB1_0401	93	WEVHAEACRWEHVMS	EEVHAEACR	0.1241	13062.6	50.00	Rv2711, TB
DRB1_0401	126	PFGNPIPGLVELGVG	PFGNPIPGL	0.1221	13339.1	50.00	Rv2711, TB
DRB1_0401	154	TELPAGSPVAVVVRQ	LPAGSPVAV	0.1219	13374.7	50.00	Rv2711, TB
DRB1_0401	127	FGNPIPGLVELGVG	GLVELGVGP	0.1190	13789.9	50.00	Rv2711, TB
DRB1_0401	139	VGPEPGADDANLVR	GADDANLVR	0.1168	14124.3	50.00	Rv2711, TB
DRB1_0401	155	ELPAGSPVAVVVRQL	LPAGSPVAV	0.1150	14407.5	50.00	Rv2711, TB
DRB1_0401	120	NNPTTSPFNGNPIPL	TSPFNGNPI	0.1113	14996.5	50.00	Rv2711, TB
DRB1_0401	156	LPAGSPVAVVVRQLT	LPAGSPVAV	0.1110	15049.6	50.00	Rv2711, TB
DRB1_0401	92	PWEEVHAEACRWEHV	EEVHAEACR	0.1087	15427.8	50.00	Rv2711, TB
DRB1_0401	196	VETTPGGGVTVIVIP	PGGGVTIVI	0.1054	15977.2	50.00	Rv2711, TB
DRB1_0401	135	VELGVGPEPGADDAN	LGVGPEPGA	0.1052	16017.0	50.00	Rv2711, TB
DRB1_0401	134	LVELGVGPEPGADDA	LGVGPEPGA	0.1020	16580.8	50.00	Rv2711, TB
DRB1_0401	136	ELGVGPEPGADDANL	LGVGPEPGA	0.0983	17254.3	50.00	Rv2711, TB
DRB1_0401	119	LNNPTTSPFNGNPIG	TSPFNGNPI	0.0952	17840.9	50.00	Rv2711, TB
DRB1_0401	137	LVGVGPEPGADDANL	LGVGPEPGA	0.0950	17896.4	50.00	Rv2711, TB
DRB1_0401	138	GVGPEPGADDANLVR	GADDANLVR	0.0928	18311.8	50.00	Rv2711, TB
DRB1_0401	157	PAGSPVAVVVRQLTE	PAGSPVAVV	0.0920	18480.6	50.00	Rv2711, TB
DRB1_0401	195	TVETTPGGGVTVIVIP	GGGVTVIVIP	0.0815	20701.4	50.00	Rv2711, TB

Allele: DRB1\_0401. Number of high binders 7. Number of weak binders 20. Number of peptides 216

Allele	pos	peptide	core	1-log50k(aff)	affinity(nM)	Bind Level	%Random	Identity
DRB1_0404	113	RRLVKVLNNPTTSPF	RLVKVLNNP	0.8714	4.0	SB	0.05	Rv2711, TB
DRB1_0404	112	ERRLVKVLNNPTTSP	RLVKVLNNP	0.8674	4.2	SB	0.05	Rv2711, TB

DRB1_0404	111	VERRLVKVLNNPTTS	RLVKVLNNP	0.8600	4.6	SB	0.05	Rv2711, TB
DRB1_0404	114	RLVKVLNNPTTSPFG	RLVKVLNNP	0.8595	4.6	SB	0.05	Rv2711, TB
DRB1_0404	110	DVERRLVKVLNNPTT	RLVKVLNNP	0.8287	6.4	SB	0.15	Rv2711, TB
DRB1_0404	115	LVKVLNNPTTSPFGN	LVKVLNNPT	0.7882	9.9	SB	0.40	Rv2711, TB
DRB1_0404	109	EDVERRLVKVLNNPT	RLVKVLNNP	0.7471	15.4	SB	2.00	Rv2711, TB
DRB1_0404	7	TEMYLRTIYDLEEEG	YLRTIYDLE	0.6603	39.5	SB	8.00	Rv2711, TB
DRB1_0404	6	TTEMYLRTIYDLEEE	YLRTIYDLE	0.6534	42.5	SB	8.00	Rv2711, TB
DRB1_0404	8	MYLRTIYDLEEEGV	YLRTIYDLE	0.6513	43.5	SB	8.00	Rv2711, TB
DRB1_0404	5	DTTEMYLRTIYDLEE	YLRTIYDLE	0.6205	60.7	WB	8.00	Rv2711, TB
DRB1_0404	148	ANLVRLTELPAGSPV	LVRLTELPA	0.6041	72.5	WB	16.00	Rv2711, TB
DRB1_0404	147	DANLVRLTELPAGSP	NLVRLTELP	0.6022	74.0	WB	16.00	Rv2711, TB
DRB1_0404	108	SEDVERRLVKVLNNP	RLVKVLNNP	0.5996	76.1	WB	16.00	Rv2711, TB
DRB1_0404	149	NLVRLTELPAGSPVA	LVRLTELPA	0.5815	92.6	WB	16.00	Rv2711, TB
DRB1_0404	146	DDANLVRLTELPAGS	NLVRLTELP	0.5777	96.4	WB	16.00	Rv2711, TB
DRB1_0404	4	VDTEMYLRTIYDLE	EMYLRTIYD	0.5624	113.8	WB	16.00	Rv2711, TB
DRB1_0404	116	VKVLNNPTTSPFGNP	KVLNNPTTS	0.5482	132.8	WB	16.00	Rv2711, TB
DRB1_0404	9	MYLRTIYDLEEEGVT	YLRTIYDLE	0.5420	141.9	WB	16.00	Rv2711, TB
DRB1_0404	145	ADDANLVRLTELPAG	NLVRLTELP	0.5264	168.1	WB	16.00	Rv2711, TB
DRB1_0404	81	AERLLVDVIGLPWEE	RLLVDVIGL	0.5241	172.3	WB	32.00	Rv2711, TB
DRB1_0404	80	LAERLLVDVIGLPWE	RLLVDVIGL	0.5151	190.0	WB	32.00	Rv2711, TB
DRB1_0404	82	ERLLVDVIGLPWEEV	RLLVDVIGL	0.5144	191.4	WB	32.00	Rv2711, TB
DRB1_0404	83	RLLVDVIGLPWEEVH	RLLVDVIGL	0.5059	209.8	WB	32.00	Rv2711, TB
DRB1_0404	150	LVRLTELPAGSPVAV	LVRLTELPA	0.4963	232.8	WB	32.00	Rv2711, TB
DRB1_0404	66	KGRALAIAMVRKHRL	RALAIAMVR	0.4870	257.3	WB	32.00	Rv2711, TB
DRB1_0404	67	GRALAIAMVRKHRLA	RALAIAMVR	0.4846	264.2	WB	32.00	Rv2711, TB
DRB1_0404	79	RLAERLLVDVIGLPW	RLLVDVIGL	0.4782	283.1	WB	32.00	Rv2711, TB
DRB1_0404	78	HRLAERLLVDVIGLP	RLLVDVIGL	0.4737	297.3	WB	32.00	Rv2711, TB
DRB1_0404	68	RALAIAMVRKHRLAE	RALAIAMVR	0.4711	305.7	WB	32.00	Rv2711, TB
DRB1_0404	65	EKGRALAIAMVRKHR	RALAIAMVR	0.4559	360.3	WB	32.00	Rv2711, TB
DRB1_0404	144	GADDANLVRLTELPA	NLVRLTELP	0.4483	391.3	WB	32.00	Rv2711, TB
DRB1_0404	178	DLITRLKDGAVVPNA	LITRLKDAG	0.4464	399.4	WB	32.00	Rv2711, TB
DRB1_0404	177	IDLITRLKDGAVVPN	LITRLKDAG	0.4376	439.2	WB	32.00	Rv2711, TB
DRB1_0404	77	KHRLAERLLVDVIGL	RLLVDVIGL	0.4305	474.3	WB	32.00	Rv2711, TB
DRB1_0404	3	LVDTTEMYLRTIYDL	EMYLRTIYD	0.4283	485.9	WB	32.00	Rv2711, TB
DRB1_0404	176	DIDLITRLKDGAVVP	LITRLKDAG	0.4238	510.2	WB	32.00	Rv2711, TB
DRB1_0404	161	PVAVVVRQLTEHVQG	VVVRQLTEH	0.4234	512.0	WB	32.00	Rv2711, TB
DRB1_0404	64	TEKGRALAIAMVRKH	RALAIAMVR	0.4207	527.6	WB	32.00	Rv2711, TB
DRB1_0404	10	YLRTIYDLEEEGVT	YLRTIYDLE	0.4203	529.7	WB	32.00	Rv2711, TB
DRB1_0404	162	VAVVVRQLTEHVQGD	VVVRQLTEH	0.4193	535.3	WB	32.00	Rv2711, TB
DRB1_0404	179	LITRLKDGAVVPNAR	LITRLKDAG	0.4020	646.0	WB	50.00	Rv2711, TB
DRB1_0404	163	AVVVRQLTEHVQGGDI	VVVRQLTEH	0.3982	672.7	WB	50.00	Rv2711, TB
DRB1_0404	190	PNARVTVETTPGGGV	RVTVETTPG	0.3970	681.8	WB	50.00	Rv2711, TB
DRB1_0404	191	NARVTVETTPGGGVT	RVTVETTPG	0.3944	700.7	WB	50.00	Rv2711, TB
DRB1_0404	2	ELVDTTEMYLRTIYD	TTEMYLRTI	0.3924	716.5	WB	50.00	Rv2711, TB
DRB1_0404	160	SPVAVVVRQLTEHVQ	VAVVVRQLT	0.3877	753.9	WB	50.00	Rv2711, TB
DRB1_0404	164	VVVRQLTEHVQGGDID	VVVRQLTEH	0.3862	766.3	WB	50.00	Rv2711, TB
DRB1_0404	203	GVTIVIPGHENVTL	IVIPGHENV	0.3805	815.1	WB	50.00	Rv2711, TB
DRB1_0404	84	LLVDVIGLPWEEVHA	LLVDVIGLP	0.3764	852.1	WB	50.00	Rv2711, TB
DRB1_0404	175	GDIDLITRLKDGAVV	LITRLKDAG	0.3747	867.6	WB	50.00	Rv2711, TB
DRB1_0404	117	KVLNNPTTSPFGNPI	KVLNNPTTS	0.3717	895.7	WB	50.00	Rv2711, TB
DRB1_0404	189	VPNARVTVETTPGGG	RVTVETTPG	0.3712	901.1	WB	50.00	Rv2711, TB
DRB1_0404	0	MNELVDTTTEMYLRTI	ELVDTEMY	0.3689	923.5	WB	50.00	Rv2711, TB
DRB1_0404	69	ALAIAMVRKHRLAER	LAIAMVRKH	0.3673	939.8	WB	50.00	Rv2711, TB
DRB1_0404	70	LAIAMVRKHRLAERL	LAIAMVRKH	0.3666	946.8	WB	50.00	Rv2711, TB
DRB1_0404	202	GGVTIVIPGHENVTL	GVTIVIPGH	0.3664	948.6	WB	50.00	Rv2711, TB
DRB1_0404	151	VRTELPAGSPVAVV	VRLTELPAG	0.3643	971.3	WB	50.00	Rv2711, TB
DRB1_0404	204	VTVIPGHENVTLPH	IVIPGHENV	0.3637	977.3	WB	50.00	Rv2711, TB
DRB1_0404	188	VVPNARVTVETTPGG	RVTVETTPG	0.3635	979.5	WB	50.00	Rv2711, TB
DRB1_0404	50	DGLLRVAGDRHLELT	LLRVAGDRH	0.3629	985.9	WB	50.00	Rv2711, TB
DRB1_0404	63	LTEKGRALAIAMVRK	RALAIAMVR	0.3618	997.4	WB	50.00	Rv2711, TB
DRB1_0404	205	TIVIPGHENVTLPHE	IVIPGHENV	0.3554	1068.5	WB	50.00	Rv2711, TB
DRB1_0404	159	GSPVAVVVRQLTEHV	VAVVVRQLT	0.3537	1088.2	WB	50.00	Rv2711, TB
DRB1_0404	1	NELVDTTTEMYLRTIY	ELVDTEMY	0.3499	1134.8	WB	50.00	Rv2711, TB
DRB1_0404	49	RDGLLRVAGDRHLEL	LLRVAGDRH	0.3490	1145.9	WB	50.00	Rv2711, TB
DRB1_0404	107	MSEDVERRLVKVLNN	RLVKVLNNP	0.3479	1159.6	WB	50.00	Rv2711, TB
DRB1_0404	126	FNGNPIPGLVELGVG	PIPGLVELG	0.3472	1167.9	WB	50.00	Rv2711, TB
DRB1_0404	51	GLLRVAGDRHLELTE	LRVAGDRHL	0.3393	1272.5	WB	50.00	Rv2711, TB
DRB1_0404	171	EHVQGDIDLITRLKD	HVQGDIDLI	0.3392	1274.1	WB	50.00	Rv2711, TB
DRB1_0404	170	TEHVQGDIDLITRLK	HVQGDIDLI	0.3382	1288.2	WB	50.00	Rv2711, TB
DRB1_0404	192	ARVTVETTPGGGVTI	RVTVETTPG	0.3371	1303.4	WB	50.00	Rv2711, TB
DRB1_0404	201	GGGVTIVIPGHENV	GVTIVIPGH	0.3357	1323.2	WB	50.00	Rv2711, TB
DRB1_0404	128	GNPPIPGLVELGVGPE	PIPGLVELG	0.3344	1341.6	WB	50.00	Rv2711, TB
DRB1_0404	187	GVVFNARVTVETTPG	VVPNARVTV	0.3341	1346.0	WB	50.00	Rv2711, TB
DRB1_0404	127	FGNPIPGLVELGVGP	PIPGLVELG	0.3316	1383.2	WB	50.00	Rv2711, TB
DRB1_0404	76	RKHLAERLLVDVIG	HRLAERLLV	0.3308	1394.5	WB	50.00	Rv2711, TB
DRB1_0404	169	LTEHVQGDIDLITRL	EHVQGDIDL	0.3294	1416.2	WB	50.00	Rv2711, TB
DRB1_0404	129	NPIPGLVELGVGPEP	PIPGLVELG	0.3275	1445.3	WB	50.00	Rv2711, TB

DRB1_0404	206	IVIPGHENVTLPHEM	IVIPGHENV	0.3217	1539.8	50.00	Rv2711, TB
DRB1_0404	85	LVDVIGLPWEEVHAE	LVDVIGLPW	0.3198	1570.7	50.00	Rv2711, TB
DRB1_0404	174	QGDIDLITRLKDGAV	LITRLKDGAV	0.3171	1618.1	50.00	Rv2711, TB
DRB1_0404	48	ERDGLLRVAGDRHLE	GLLRVAGDR	0.3170	1619.0	50.00	Rv2711, TB
DRB1_0404	165	VVRQLTEHVQGDIDL	VVRQLTEHV	0.3164	1629.5	50.00	Rv2711, TB
DRB1_0404	125	SPFGNPIPLVELGV	PIPLVELGV	0.3099	1749.0	50.00	Rv2711, TB
DRB1_0404	62	ELTEKGRALAIIVMR	RALAIIVMR	0.3057	1830.7	50.00	Rv2711, TB
DRB1_0404	52	LRVAGDRHLELLETEK	LRVAGDRHL	0.3053	1838.3	50.00	Rv2711, TB
DRB1_0404	130	PIPLVELGVGPEPG	PIPLVELGV	0.3053	1838.9	50.00	Rv2711, TB
DRB1_0404	193	RVTVETTPGGGVTTIV	RVTVETTPG	0.3043	1858.0	50.00	Rv2711, TB
DRB1_0404	172	HVQGDIDLITRLKDA	HVQGDIDL	0.2976	1997.0	50.00	Rv2711, TB
DRB1_0404	168	QLTEHVQGDIDLITR	EHVQGDIDL	0.2957	2039.2	50.00	Rv2711, TB
DRB1_0404	186	AGVVPNARVTVETTP	VVPNARVTV	0.2942	2071.8	50.00	Rv2711, TB
DRB1_0404	152	RLTELPAGSPVAVVV	RLTELPAGS	0.2942	2072.5	50.00	Rv2711, TB
DRB1_0404	200	PGGGVTTIVIPGHENV	GVTIVIPGH	0.2889	2194.8	50.00	Rv2711, TB
DRB1_0404	158	AGSPVAVVVRQLTEH	VAVVVRQLT	0.2882	2212.0	50.00	Rv2711, TB
DRB1_0404	180	ITRLKDGAVVVPNARV	TRLKDGAVV	0.2858	2268.7	50.00	Rv2711, TB
DRB1_0404	47	MERDGLLRVAGDRHL	GLLRVAGDR	0.2858	2268.8	50.00	Rv2711, TB
DRB1_0404	185	DAGVVPNARVTVETT	VVPNARVTV	0.2794	2431.3	50.00	Rv2711, TB
DRB1_0404	143	PGADDANLVRLELTEL	NLVRLELTEL	0.2790	2444.1	50.00	Rv2711, TB
DRB1_0404	75	MRKHRLAERLLVDVI	HRLAERLLV	0.2764	2512.4	50.00	Rv2711, TB
DRB1_0404	87	DVIGLPWEEVHAEAC	VIGLPWEEV	0.2746	2561.4	50.00	Rv2711, TB
DRB1_0404	124	TSPFGNPIPLVELGV	PFGNPIPLV	0.2745	2563.8	50.00	Rv2711, TB
DRB1_0404	86	VDVIGLPWEEVHAEA	VIGLPWEEV	0.2718	2641.2	50.00	Rv2711, TB
DRB1_0404	99	EACRWEHVMSSEDVER	EACRWEHVM	0.2715	2650.9	50.00	Rv2711, TB
DRB1_0404	181	TRLKDGAVVVPNARV	TRLKDGAVV	0.2710	2664.0	50.00	Rv2711, TB
DRB1_0404	173	VQGDIDLITRLKDGAV	LITRLKDGAV	0.2647	2853.4	50.00	Rv2711, TB
DRB1_0404	97	HAACRWEHVMSSEDEV	EACRWEHVM	0.2627	2914.9	50.00	Rv2711, TB
DRB1_0404	53	LRVAGDRHLELLETEK	LRVAGDRHL	0.2602	2993.9	50.00	Rv2711, TB
DRB1_0404	167	RQLTEHVQGDIDLIT	HVQGDIDL	0.2573	3088.2	50.00	Rv2711, TB
DRB1_0404	98	AEACRWEHVMSSEDEV	EACRWEHVM	0.2566	3112.0	50.00	Rv2711, TB
DRB1_0404	74	VMRKHRLAERLLVDV	HRLAERLLV	0.2521	3267.7	50.00	Rv2711, TB
DRB1_0404	28	RIAERLDQSGPTVSQ	RIAERLDQS	0.2504	3328.8	50.00	Rv2711, TB
DRB1_0404	88	VIGLPWEEVHAEACR	VIGLPWEEV	0.2490	3379.3	50.00	Rv2711, TB
DRB1_0404	131	IPGLVELGVGPEPGA	GLVELGVGP	0.2480	3418.5	50.00	Rv2711, TB
DRB1_0404	27	ARIAERLDQSGPTVS	RIAERLDQS	0.2449	3533.3	50.00	Rv2711, TB
DRB1_0404	123	TTSFPGNPIPLVEL	TTSFPGNPI	0.2447	3540.2	50.00	Rv2711, TB
DRB1_0404	153	LTELPAGSPVAVVVR	ELPAGSPVA	0.2440	3567.0	50.00	Rv2711, TB
DRB1_0404	122	PTTSFPGNPIPLV	TTSFPGNPI	0.2435	3587.4	50.00	Rv2711, TB
DRB1_0404	118	VLNNPTTSPFGNPIP	VLNNPTTSP	0.2433	3593.5	50.00	Rv2711, TB
DRB1_0404	96	VHAACRWEHVMSSEDEV	EACRWEHVM	0.2408	3693.9	50.00	Rv2711, TB
DRB1_0404	46	RMERDGLLRVAGDRH	GLLRVAGDR	0.2396	3741.9	50.00	Rv2711, TB
DRB1_0404	199	TPGGVTTIVIPGHENV	GVTIVIPGH	0.2378	3814.7	50.00	Rv2711, TB
DRB1_0404	20	EGVTPLRARIAERLD	VTPLRARIA	0.2370	3848.2	50.00	Rv2711, TB
DRB1_0404	182	RLKDGAVVVPNARVTV	LKDAGVVPN	0.2360	3891.7	50.00	Rv2711, TB
DRB1_0404	121	NPTTSPFGNPIPLV	TTSFPGNPI	0.2335	3997.9	50.00	Rv2711, TB
DRB1_0404	184	KDAGVVPNARVTVET	VVPNARVTV	0.2322	4055.6	50.00	Rv2711, TB
DRB1_0404	19	EGVTPLRARIAERL	VTPLRARIA	0.2302	4144.4	50.00	Rv2711, TB
DRB1_0404	30	AERLDQSGPTVSQTV	RLDQSGPTV	0.2273	4272.6	50.00	Rv2711, TB
DRB1_0404	132	PGLVELGVGPEPGA	GLVELGVGP	0.2267	4300.2	50.00	Rv2711, TB
DRB1_0404	26	RIAERLDQSGPTVS	RIAERLDQS	0.2263	4321.5	50.00	Rv2711, TB
DRB1_0404	32	RLDQSGPTVSQTVSR	RLDQSGPTV	0.2253	4369.7	50.00	Rv2711, TB
DRB1_0404	29	IAERLDQSGPTVSQTV	RLDQSGPTV	0.2247	4398.2	50.00	Rv2711, TB
DRB1_0404	154	TELPAGSPVAVVVRQ	ELPAGSPVA	0.2243	4413.4	50.00	Rv2711, TB
DRB1_0404	71	AIIVMRKHRLAERLL	IAIVMRKHRL	0.2240	4429.3	50.00	Rv2711, TB
DRB1_0404	21	GVTPLRARIAERLDQ	VTPLRARIA	0.2229	4483.4	50.00	Rv2711, TB
DRB1_0404	157	PAGSPVAVVVRQLTE	VAVVVRQLT	0.2204	4608.0	50.00	Rv2711, TB
DRB1_0404	183	LKDAGVVPNARVTVET	VVPNARVTV	0.2202	4616.3	50.00	Rv2711, TB
DRB1_0404	155	ELPAGSPVAVVVRQL	ELPAGSPVA	0.2197	4642.4	50.00	Rv2711, TB
DRB1_0404	36	SGPTVSQTVSRMERD	PTVSQTVSR	0.2195	4653.1	50.00	Rv2711, TB
DRB1_0404	120	NNPTTSPFGNPIPL	TTSFPGNPI	0.2193	4660.7	50.00	Rv2711, TB
DRB1_0404	31	ERLDQSGPTVSQTVS	RLDQSGPTV	0.2186	4697.0	50.00	Rv2711, TB
DRB1_0404	61	LELTEKGRALAIIVMR	KGRALAIIV	0.2172	4766.2	50.00	Rv2711, TB
DRB1_0404	207	VIPGHENVTLPHEMA	VIPGHENV	0.2161	4823.5	50.00	Rv2711, TB
DRB1_0404	133	GLVELGVGPEPGA	GLVELGVGP	0.2159	4835.4	50.00	Rv2711, TB
DRB1_0404	73	AVMRKHRLAERLLVD	HRLAERLLV	0.2149	4890.2	50.00	Rv2711, TB
DRB1_0404	38	PTVSQTVSRMERDGL	PTVSQTVSR	0.2139	4942.5	50.00	Rv2711, TB
DRB1_0404	18	EEGVTPLRARIAER	VTPLRARIA	0.2129	4996.1	50.00	Rv2711, TB
DRB1_0404	37	GPTVSQTVSRMERD	PTVSQTVSR	0.2111	5093.5	50.00	Rv2711, TB
DRB1_0404	100	ACRWEHVMSSEDEV	HVMSSEDEV	0.2106	5118.4	50.00	Rv2711, TB
DRB1_0404	22	VTPLRARIAERLDQ	VTPLRARIA	0.2102	5141.4	50.00	Rv2711, TB
DRB1_0404	72	IAIVMRKHRLAERLL	IAIVMRKHRL	0.2097	5168.6	50.00	Rv2711, TB
DRB1_0404	45	SRMERDGLLRVAGDR	DGLLRVAGD	0.2082	5258.2	50.00	Rv2711, TB
DRB1_0404	166	VRQLTEHVQGDIDL	HVQGDIDL	0.2066	5348.6	50.00	Rv2711, TB
DRB1_0404	95	EVHAEACRWEHVMSSE	EACRWEHVM	0.2065	5351.6	50.00	Rv2711, TB
DRB1_0404	215	TLPHEMAHAVKVEKV	HEMAHAVKV	0.2055	5412.7	50.00	Rv2711, TB
DRB1_0404	119	LNNPTTSPFGNPIP	PTTSPFGNP	0.2054	5419.3	50.00	Rv2711, TB

DRB1_0404	35	QSGPTVSQTVSRMER	PTVSQTVSR	0.2034	5536.8	50.00	Rv2711, TB
DRB1_0404	198	TTPGGGVTIVIPGHE	GVTIVIPGH	0.2010	5680.6	50.00	Rv2711, TB
DRB1_0404	102	RWEHVMSDEVERRLV	HVMSDEV	0.2000	5741.9	50.00	Rv2711, TB
DRB1_0404	17	LEEEGVTPLRARIAE	VTPLRARIA	0.1982	5857.3	50.00	Rv2711, TB
DRB1_0404	213	NVTLPHEMAHAVKVE	NVTLPHEMA	0.1960	5996.3	50.00	Rv2711, TB
DRB1_0404	101	CRWEHVMSDEVERRL	HVMSDEV	0.1879	6546.7	50.00	Rv2711, TB
DRB1_0404	44	VSRMERDGLLRVAGD	RMERDGLLR	0.1867	6632.2	50.00	Rv2711, TB
DRB1_0404	103	WEHVMSDEVERRLVK	HVMSDEV	0.1859	6688.1	50.00	Rv2711, TB
DRB1_0404	212	ENVTLPHMAHAVKV	NVTLPHEMA	0.1859	6690.7	50.00	Rv2711, TB
DRB1_0404	214	VTLPHMAHAVKVEK	HEMAHAVKV	0.1845	6790.8	50.00	Rv2711, TB
DRB1_0404	105	HVMSDEVERRLVKVL	HVMSDEV	0.1820	6977.5	50.00	Rv2711, TB
DRB1_0404	94	EEVHAEACRWEHVMS	EACRWEHVM	0.1794	7174.9	50.00	Rv2711, TB
DRB1_0404	25	LRARIAERLDQSGPT	RIAERLDQS	0.1784	7257.6	50.00	Rv2711, TB
DRB1_0404	34	DQSGPTVSQTVSRME	PTVSQTVSR	0.1776	7315.6	50.00	Rv2711, TB
DRB1_0404	134	LVELGVGPEPGADDA	LVELGVGPE	0.1769	7373.4	50.00	Rv2711, TB
DRB1_0404	104	EHVMSDEVERRLVKV	HVMSDEV	0.1758	7461.8	50.00	Rv2711, TB
DRB1_0404	33	LQSGPTVSQTVSRM	PTVSQTVSR	0.1743	7587.7	50.00	Rv2711, TB
DRB1_0404	23	TPLRARIAERLDQSG	RIAERLDQS	0.1740	7608.6	50.00	Rv2711, TB
DRB1_0404	156	LPAGSPVAVVVRQLT	VAVVVRQLT	0.1723	7749.7	50.00	Rv2711, TB
DRB1_0404	106	VMSEDEVERRLVKVL	VERRLVKVL	0.1722	7760.6	50.00	Rv2711, TB
DRB1_0404	16	LEEEGVTPLRARIA	LEEEGVTP	0.1698	7960.7	50.00	Rv2711, TB
DRB1_0404	24	PLRARIAERLDQSGP	RIAERLDQS	0.1690	8035.1	50.00	Rv2711, TB
DRB1_0404	43	TVSRMERDGLLRVAG	RMERDGLLR	0.1670	8212.0	50.00	Rv2711, TB
DRB1_0404	211	HENVTLPHMAHAVK	NVTLPHEMA	0.1621	8657.0	50.00	Rv2711, TB
DRB1_0404	60	HLELTEKGRALAI	KGRALAI	0.1610	8759.9	50.00	Rv2711, TB
DRB1_0404	197	ETTPGGGVTIVIPGH	GVTIVIPGH	0.1609	8764.2	50.00	Rv2711, TB
DRB1_0404	39	TVSQTVSRMERDGLL	TVSQTVSRM	0.1590	8946.5	50.00	Rv2711, TB
DRB1_0404	89	IGLPWEEVHAEACRW	IGLPWEEVH	0.1558	9265.6	50.00	Rv2711, TB
DRB1_0404	210	GHENVTLPHEMAHAV	NVTLPHEMA	0.1554	9309.3	50.00	Rv2711, TB
DRB1_0404	42	QTVSRMERDGLLRVA	VSRMERDGL	0.1507	9792.2	50.00	Rv2711, TB
DRB1_0404	11	LRTIYDLEEEGVTP	LRTIYDLEE	0.1470	10191.2	50.00	Rv2711, TB
DRB1_0404	41	SQTVSRMERDGLLRV	VSRMERDGL	0.1417	10793.8	50.00	Rv2711, TB
DRB1_0404	142	EPGADDANLVRLTEL	EPGADDANL	0.1380	11230.1	50.00	Rv2711, TB
DRB1_0404	57	GDRHLELTEKGRALA	RHLELTEKG	0.1375	11294.8	50.00	Rv2711, TB
DRB1_0404	58	DRHLELTEKGRALAI	RHLELTEKG	0.1332	11826.9	50.00	Rv2711, TB
DRB1_0404	56	AGDRHLELTEKGRAL	RHLELTEKG	0.1325	11924.4	50.00	Rv2711, TB
DRB1_0404	208	IPGHENVTLPHMAH	IPGHENVTL	0.1309	12128.2	50.00	Rv2711, TB
DRB1_0404	194	VTVETTPGGGVTIVI	VTVETTPGG	0.1243	13026.3	50.00	Rv2711, TB
DRB1_0404	209	PGHENVTLPHEMAHA	NVTLPHEMA	0.1237	13110.2	50.00	Rv2711, TB
DRB1_0404	15	YDLEEEGVTPLRARI	LEEEGVTP	0.1232	13178.4	50.00	Rv2711, TB
DRB1_0404	40	VSQTVSRMERDGLLR	VSRMERDGL	0.1222	13323.4	50.00	Rv2711, TB
DRB1_0404	93	WEEVHAEACRWEHVM	EACRWEHVM	0.1211	13482.8	50.00	Rv2711, TB
DRB1_0404	135	VELGVGPEPGADDAN	ELGVGPEPG	0.1208	13531.6	50.00	Rv2711, TB
DRB1_0404	55	VAGDRHLELTEKGRA	RHLELTEKG	0.1201	13638.0	50.00	Rv2711, TB
DRB1_0404	59	RHLELTEKGRALAI	RHLELTEKG	0.1200	13644.5	50.00	Rv2711, TB
DRB1_0404	54	RVAGDRHLELTEKGR	RHLELTEKG	0.1167	14138.5	50.00	Rv2711, TB
DRB1_0404	14	IYDLEEEGVTPLRAR	LEEEGVTP	0.1110	15044.7	50.00	Rv2711, TB
DRB1_0404	136	ELGVGPEPGADDANL	ELGVGPEPG	0.1108	15073.4	50.00	Rv2711, TB
DRB1_0404	12	RTIYDLEEEGVTPLR	TIYDLEEEG	0.1045	16147.2	50.00	Rv2711, TB
DRB1_0404	13	TIYDLEEEGVTPLRA	TIYDLEEEG	0.1028	16434.5	50.00	Rv2711, TB
DRB1_0404	196	VETTPGGGVTIVIPG	GGVTIVIPG	0.0991	17106.7	50.00	Rv2711, TB
DRB1_0404	137	LGVGPEPGADDANLV	LGVGPEPGA	0.0974	17434.6	50.00	Rv2711, TB
DRB1_0404	90	GLPWEEVHAEACRWE	GLPWEEVHA	0.0910	18688.7	50.00	Rv2711, TB
DRB1_0404	141	PEPGADDANLVRLTE	EPGADDANL	0.0906	18750.7	50.00	Rv2711, TB
DRB1_0404	140	GPPEPGADDANLVRL	EPGADDANL	0.0894	19000.9	50.00	Rv2711, TB
DRB1_0404	139	VGPEPGADDANLVRL	EPGADDANL	0.0871	19476.1	50.00	Rv2711, TB
DRB1_0404	195	TVETTPGGGVTIVIP	TTPGGGVTI	0.0868	19549.8	50.00	Rv2711, TB
DRB1_0404	92	PWEEVHAEACRWEHV	EVHAEACRW	0.0823	20518.1	50.00	Rv2711, TB
DRB1_0404	138	GVGPEPGADDANLVR	EPGADDANL	0.0760	21979.2	50.00	Rv2711, TB
DRB1_0404	91	LPWEEVHAEACRWEH	EVHAEACRW	0.0726	22794.5	50.00	Rv2711, TB

Allele: DRB1\_0404. Number of high binders 10. Number of weak binders 26. Number of peptides 216

Allele	pos	peptide	core	l-log50k(aff)	affinity(nM)	Bind Level	%Random	Identity
DRB1_0405	111	VERRLVKVLNNPTTS	LVKVLNNPT	0.7370	17.2	SB	2.00	Rv2711, TB
DRB1_0405	112	ERRLVKVLNNPTTSP	LVKVLNNPT	0.7345	17.7	SB	2.00	Rv2711, TB
DRB1_0405	110	DVERRLVKVLNNPTT	LVKVLNNPT	0.7336	17.9	SB	2.00	Rv2711, TB
DRB1_0405	113	RRLVKVLNNPTTSPF	LVKVLNNPT	0.7236	19.9	SB	2.00	Rv2711, TB
DRB1_0405	6	TTEMYLRTIYDLEEE	EMYLRTIYD	0.7219	20.3	SB	2.00	Rv2711, TB
DRB1_0405	5	DTTEMYLRTIYDLEE	EMYLRTIYD	0.7131	22.3	SB	2.00	Rv2711, TB
DRB1_0405	109	EDVERRLVKVLNNPT	LVKVLNNPT	0.7075	23.7	SB	4.00	Rv2711, TB
DRB1_0405	7	TEMYLRTIYDLEEEG	EMYLRTIYD	0.6963	26.7	SB	4.00	Rv2711, TB
DRB1_0405	99	EACRWEHVMSDEV	CRWEHVMS	0.6940	27.4	SB	4.00	Rv2711, TB

DRB1_0405	100	ACRWEHVMSSEVERR	CRWEHVMSSE	0.6881	29.2	SB	4.00	Rv2711, TB
DRB1_0405	98	AEACRWEHVMSSE	CRWEHVMSSE	0.6819	31.2	SB	4.00	Rv2711, TB
DRB1_0405	8	EMYLRTIYDLEEEGV	EMYLRTIYD	0.6775	32.8	SB	4.00	Rv2711, TB
DRB1_0405	4	VDTEMYLRTIYDLE	EMYLRTIYD	0.6651	37.5	SB	8.00	Rv2711, TB
DRB1_0405	114	RLVKVLNNPTTSPFG	LVKVLNNPT	0.6640	37.9	SB	8.00	Rv2711, TB
DRB1_0405	97	HAEACRWEHVMSSE	CRWEHVMSSE	0.6505	43.9	SB	8.00	Rv2711, TB
DRB1_0405	147	DANLVRLTELPAGSP	LVRLTELP	0.6488	44.7	SB	8.00	Rv2711, TB
DRB1_0405	101	CRWEHVMSSE	CRWEHVMSSE	0.6464	45.9	SB	8.00	Rv2711, TB
DRB1_0405	148	ANLVRLTELPAGSPV	LVRLTELP	0.6450	46.6	SB	8.00	Rv2711, TB
DRB1_0405	149	NLVRLTELPAGSPVA	LVRLTELP	0.6277	56.2	WB	8.00	Rv2711, TB
DRB1_0405	3	LVDTTTEMYLRTIYD	EMYLRTIYD	0.6255	57.5	WB	16.00	Rv2711, TB
DRB1_0405	146	DDANLVRLTELPAGS	LVRLTELP	0.6203	60.9	WB	16.00	Rv2711, TB
DRB1_0405	2	ELVDTTEMYLRTIYD	EMYLRTIYD	0.6183	62.2	WB	16.00	Rv2711, TB
DRB1_0405	115	LVKVLNNPTTSPFGN	VKVLNNPTT	0.6141	65.0	WB	16.00	Rv2711, TB
DRB1_0405	108	SEDEVERRLVKVLNNP	RRLVKVLNN	0.5933	81.5	WB	16.00	Rv2711, TB
DRB1_0405	150	LVRLTELPAGSPVAV	LVRLTELP	0.5881	86.2	WB	16.00	Rv2711, TB
DRB1_0405	145	ADDANLVRLTELPAG	LVRLTELP	0.5782	96.0	WB	16.00	Rv2711, TB
DRB1_0405	9	MYLRTIYDLEEEGV	YLRTIYDLE	0.5669	108.4	WB	16.00	Rv2711, TB
DRB1_0405	96	VHAEACRWEHVMSSE	CRWEHVMSSE	0.5391	146.5	WB	32.00	Rv2711, TB
DRB1_0405	107	MSEDEVERRLVKVLNN	RRLVKVLNN	0.5247	171.2	WB	32.00	Rv2711, TB
DRB1_0405	102	RWEHVMSSE	WEHVMSSE	0.5151	189.8	WB	32.00	Rv2711, TB
DRB1_0405	177	IDLITRLKDGAVV	TRLKDGAVV	0.5141	192.0	WB	32.00	Rv2711, TB
DRB1_0405	82	ERLLVDVIGLPWEEV	LLVDVIGLP	0.5117	197.0	WB	32.00	Rv2711, TB
DRB1_0405	178	DLITRLKDGAVV	TRLKDGAVV	0.5106	199.4	WB	32.00	Rv2711, TB
DRB1_0405	83	RLLDVIGLPWEEV	LLVDVIGLP	0.5096	201.6	WB	32.00	Rv2711, TB
DRB1_0405	176	DIDLITRLKDGAVV	ITRLKDGAVV	0.5068	207.8	WB	32.00	Rv2711, TB
DRB1_0405	10	YLRTIYDLEEEGV	YLRTIYDLE	0.5058	210.0	WB	32.00	Rv2711, TB
DRB1_0405	81	AERLLVDVIGLPWEE	RLLVDVIGLP	0.4986	226.9	WB	32.00	Rv2711, TB
DRB1_0405	179	LITRLKDGAVV	TRLKDGAVV	0.4882	254.0	WB	32.00	Rv2711, TB
DRB1_0405	0	MNELVDTTTEMYLRTI	LVDTTTEMYL	0.4855	261.7	WB	32.00	Rv2711, TB
DRB1_0405	1	NELVDTTTEMYLRTIY	LVDTTTEMYL	0.4842	265.4	WB	32.00	Rv2711, TB
DRB1_0405	84	LLVDVIGLPWEEV	LLVDVIGLP	0.4805	276.0	WB	32.00	Rv2711, TB
DRB1_0405	175	GDIDLITRLKDGAVV	ITRLKDGAVV	0.4802	277.2	WB	32.00	Rv2711, TB
DRB1_0405	116	VKVLNNPTTSPFGNP	VKVLNNPTT	0.4724	301.4	WB	50.00	Rv2711, TB
DRB1_0405	180	ITRLKDGAVV	RLKDGAVV	0.4722	302.2	WB	50.00	Rv2711, TB
DRB1_0405	80	LAERLLVDVIGLPWE	RLLVDVIGLP	0.4710	305.9	WB	50.00	Rv2711, TB
DRB1_0405	144	GADDANLVRLTELP	LVRLTELP	0.4612	340.3	WB	50.00	Rv2711, TB
DRB1_0405	79	RLAERLLVDVIGLPW	RLLVDVIGLP	0.4537	368.9	WB	50.00	Rv2711, TB
DRB1_0405	162	VAVVVRQLTEHVQGD	VVRQLTEHV	0.4499	384.4	WB	50.00	Rv2711, TB
DRB1_0405	163	AVVVRQLTEHVQGDI	VVRQLTEHV	0.4497	385.4	WB	50.00	Rv2711, TB
DRB1_0405	181	TRLKDGAVV	RLKDGAVV	0.4427	415.9	WB	50.00	Rv2711, TB
DRB1_0405	171	EHVQGDIDLITRLK	EHVQGDIDL	0.4365	444.7	WB	50.00	Rv2711, TB
DRB1_0405	95	EVHAEACRWEHVMSSE	CRWEHVMSSE	0.4353	450.4	WB	50.00	Rv2711, TB
DRB1_0405	161	PVAVVVRQLTEHVQ	VVRQLTEHV	0.4301	476.2	WB	50.00	Rv2711, TB
DRB1_0405	164	VVVRQLTEHVQGDID	VVRQLTEHV	0.4266	494.7	WB	50.00	Rv2711, TB
DRB1_0405	174	QGDIDLITRLKDGAV	DIDLITRLK	0.4264	495.7	WB	50.00	Rv2711, TB
DRB1_0405	78	HLAERLLVDVIGLP	RLLVDVIGLP	0.4264	495.8	WB	50.00	Rv2711, TB
DRB1_0405	77	KHRLAERLLVDVIGL	LAERLLVDV	0.4185	540.3	WB	50.00	Rv2711, TB
DRB1_0405	169	LTEHVQGDIDLITRL	HVQGDIDL	0.4179	543.3	WB	50.00	Rv2711, TB
DRB1_0405	170	TEHVQGDIDLITRLK	HVQGDIDL	0.4172	547.5	WB	50.00	Rv2711, TB
DRB1_0405	45	SRMERDGLLRVAGDR	RMERDGLLR	0.4155	558.1	WB	50.00	Rv2711, TB
DRB1_0405	44	VSRMERDGLLRVAGD	RMERDGLLR	0.4149	561.4	WB	50.00	Rv2711, TB
DRB1_0405	85	LVDVIGLPWEEV	VDVIGLPWE	0.4108	586.8	WB	50.00	Rv2711, TB
DRB1_0405	168	QLTEHVQGDIDLITR	HVQGDIDL	0.4094	596.0	WB	50.00	Rv2711, TB
DRB1_0405	172	HVQGDIDLITRLKDA	IDLITRLK	0.4065	615.3	WB	50.00	Rv2711, TB
DRB1_0405	160	SPVAVVVRQLTEHVQ	VVVRQLTEH	0.4058	619.5	WB	50.00	Rv2711, TB
DRB1_0405	88	VIGLPWEEVHAEACR	GLPWEEVHA	0.4009	653.4	WB	50.00	Rv2711, TB
DRB1_0405	50	DGLLRVAGDRHLELT	LLRVAGDRH	0.3992	665.5	WB	50.00	Rv2711, TB
DRB1_0405	46	RMERDGLLRVAGDRH	RMERDGLLR	0.3985	670.6	WB	50.00	Rv2711, TB
DRB1_0405	173	VQGDIDLITRLKDG	DIDLITRLK	0.3962	687.4	WB	50.00	Rv2711, TB
DRB1_0405	126	FGNPIPGLVELGV	FGNPIPGLV	0.3948	697.7	WB	50.00	Rv2711, TB
DRB1_0405	86	VDVIGLPWEEV	VDVIGLPWE	0.3941	703.1	WB	50.00	Rv2711, TB
DRB1_0405	125	SPFGNPIPGLVELGV	FGNPIPGLV	0.3925	715.2	WB	50.00	Rv2711, TB
DRB1_0405	49	RDGLLRVAGDRHLEL	LLRVAGDRH	0.3905	730.8	WB	50.00	Rv2711, TB
DRB1_0405	127	FGNPIPGLVELGV	FGNPIPGLV	0.3900	735.2	WB	50.00	Rv2711, TB
DRB1_0405	89	IGLPWEEVHAEACRW	LPWEEVHAE	0.3892	741.5	WB	50.00	Rv2711, TB
DRB1_0405	167	RQLTEHVQGDIDLIT	HVQGDIDL	0.3880	751.3	WB	50.00	Rv2711, TB
DRB1_0405	87	DVIGLPWEEVHAEAC	LPWEEVHAE	0.3874	756.0	WB	50.00	Rv2711, TB
DRB1_0405	48	ERDGLLRVAGDRHLE	LLRVAGDRH	0.3856	770.8	WB	50.00	Rv2711, TB
DRB1_0405	207	VIPGHENVTLPHEMA	HENVTLPHE	0.3830	793.3	WB	50.00	Rv2711, TB
DRB1_0405	47	MERDGLLRVAGDRHLE	DGLLRVAGD	0.3828	795.1	WB	50.00	Rv2711, TB
DRB1_0405	76	RKHLAERLLVDVIG	RLAERLLVD	0.3800	819.4	WB	50.00	Rv2711, TB
DRB1_0405	64	TEKGRALAIAMVRKH	GRALAIAMV	0.3782	835.0	WB	50.00	Rv2711, TB
DRB1_0405	208	IPGHENVTLPHEMAH	GHENVTLPH	0.3782	835.1	WB	50.00	Rv2711, TB
DRB1_0405	51	GGLLRVAGDRHLEL	LLRVAGDRH	0.3775	841.3	WB	50.00	Rv2711, TB
DRB1_0405	63	LTEKGRALAIAMVRK	KGRALAIAMV	0.3718	894.9	WB	50.00	Rv2711, TB
DRB1_0405	65	EKGRALAIAMVRK	GRALAIAMV	0.3680	932.3	WB	50.00	Rv2711, TB

DRB1_0405	159	GSPVAVVVRQLTEHV	VVVRQLTEH	0.3669	944.4	50.00	Rv2711, TB
DRB1_0405	52	LLRVAGDRHLELLEK	LRVAGDRHL	0.3661	952.5	50.00	Rv2711, TB
DRB1_0405	124	TSPFGNPIPLGVELG	FGNPIPLGV	0.3655	958.2	50.00	Rv2711, TB
DRB1_0405	206	IVIPGHENVTLPHEM	GHENVTLPH	0.3650	963.7	50.00	Rv2711, TB
DRB1_0405	209	PGHENVTLPHEMAHA	HENVTLPHE	0.3646	967.9	50.00	Rv2711, TB
DRB1_0405	205	TIVIPGHENVTLPHE	TIVIPGHEN	0.3633	981.8	50.00	Rv2711, TB
DRB1_0405	11	LRTIYDLEEEGVTPLE	LRTIYDLEE	0.3612	1004.0	50.00	Rv2711, TB
DRB1_0405	165	VVRQLTEHVQGDIDL	VVRQLTEHV	0.3604	1013.0	50.00	Rv2711, TB
DRB1_0405	20	EGVTPLRARIAERLD	GVTPLRARI	0.3602	1015.0	50.00	Rv2711, TB
DRB1_0405	199	TPGGGVTIVIPGHEN	GGVTIVIPG	0.3587	1030.9	50.00	Rv2711, TB
DRB1_0405	200	GGGGVTIVIPGHENV	GGVTIVIPG	0.3581	1038.6	50.00	Rv2711, TB
DRB1_0405	201	GGGVTIVIPGHENV	GGVTIVIPG	0.3578	1042.0	50.00	Rv2711, TB
DRB1_0405	151	VRLTELPAGSPVAVV	VRLTELPAG	0.3576	1044.2	50.00	Rv2711, TB
DRB1_0405	103	WEHVMSERVEDVRLVK	WEHVMSEDV	0.3559	1063.6	50.00	Rv2711, TB
DRB1_0405	66	KGRALAIAMRKHRL	KGRALAIAM	0.3552	1070.8	50.00	Rv2711, TB
DRB1_0405	90	GLPWEEVHAEACRWE	LPWEEVHAE	0.3545	1079.8	50.00	Rv2711, TB
DRB1_0405	182	RLKDGAVVPNARVTV	RLKDGAVVP	0.3530	1097.6	50.00	Rv2711, TB
DRB1_0405	128	GNPIPGLVELGVGPE	NPIPGLVEL	0.3514	1115.8	50.00	Rv2711, TB
DRB1_0405	210	GHENVTLPHEMAHAV	GHENVTLPH	0.3503	1129.9	50.00	Rv2711, TB
DRB1_0405	166	VRQLTEHVQGDIDL	VRQLTEHVQ	0.3490	1145.1	50.00	Rv2711, TB
DRB1_0405	202	GGVTIVIPGHENVTL	GVTIVIPGH	0.3489	1146.7	50.00	Rv2711, TB
DRB1_0405	43	TVSRMERDGLLRVAG	MERDGLLRV	0.3471	1169.5	50.00	Rv2711, TB
DRB1_0405	18	EEEGVTPLRARIAER	GVTPLRARI	0.3471	1170.0	50.00	Rv2711, TB
DRB1_0405	19	EEGVTPLRARIAERL	GVTPLRARI	0.3468	1173.2	50.00	Rv2711, TB
DRB1_0405	37	GPTVSQTVSRMERDG	VSQTVSRME	0.3448	1199.4	50.00	Rv2711, TB
DRB1_0405	36	SGPTVSQTVSRMERD	VSQTVSRME	0.3437	1213.7	50.00	Rv2711, TB
DRB1_0405	123	TSPFGNPIPLGVEL	FGNPIPLGV	0.3434	1216.7	50.00	Rv2711, TB
DRB1_0405	75	MRKHRLAERLLVDVI	RLAERLLVD	0.3432	1219.2	50.00	Rv2711, TB
DRB1_0405	17	LEEEGVTPLRARIAE	GVTPLRARI	0.3424	1230.7	50.00	Rv2711, TB
DRB1_0405	129	NP I PGLVELGVGPEP	GLVELGVGP	0.3395	1269.5	50.00	Rv2711, TB
DRB1_0405	106	VMSERVEDVRLVKVLN	VERRLVKVL	0.3375	1297.5	50.00	Rv2711, TB
DRB1_0405	158	AGSPVAVVVRQLTEH	PVAVVVRQL	0.3350	1333.0	50.00	Rv2711, TB
DRB1_0405	35	QSPTVSQTVSRMER	PTVSQTVSR	0.3341	1345.4	50.00	Rv2711, TB
DRB1_0405	62	ELTEKGRALAIAMR	GRALAIAM	0.3294	1416.3	50.00	Rv2711, TB
DRB1_0405	21	GVTPLRARIAERLDQ	TPLRARIAE	0.3225	1526.5	50.00	Rv2711, TB
DRB1_0405	117	KVLNNPTTSPFGNPI	KVLNNPTTS	0.3217	1539.0	50.00	Rv2711, TB
DRB1_0405	67	GRALAIAMRKHRLA	GRALAIAM	0.3215	1541.9	50.00	Rv2711, TB
DRB1_0405	42	QTVSRMERDGLLRVA	SRMERDGLL	0.3213	1545.6	50.00	Rv2711, TB
DRB1_0405	38	PTVSQTVSRMERDGL	VSQTVSRME	0.3182	1598.6	50.00	Rv2711, TB
DRB1_0405	34	DQSGPTVSQTVSRME	PTVSQTVSR	0.3131	1689.3	50.00	Rv2711, TB
DRB1_0405	130	PIPLGVELGVGPEPG	LVELGVGPE	0.3123	1703.8	50.00	Rv2711, TB
DRB1_0405	16	DLEEEGVTPLRARIA	LEEEGVTPLE	0.3111	1726.0	50.00	Rv2711, TB
DRB1_0405	190	PNARVTVETTPGGGV	NARVTVETT	0.3102	1742.8	50.00	Rv2711, TB
DRB1_0405	23	TPLRARIAERLDQSG	TPLRARIAE	0.3096	1754.8	50.00	Rv2711, TB
DRB1_0405	74	VMRKHRLAERLLVDV	RLAERLLVD	0.3088	1769.0	50.00	Rv2711, TB
DRB1_0405	15	YDLEEEGVTPLRARI	YDLEEEGVT	0.3087	1772.1	50.00	Rv2711, TB
DRB1_0405	198	TPGGGVTIVIPGHE	GGVTIVIPG	0.3081	1783.8	50.00	Rv2711, TB
DRB1_0405	211	HENVTLPHEMAHAVK	HENVTLPHE	0.3072	1801.6	50.00	Rv2711, TB
DRB1_0405	53	LRVAGDRHLELLEK	LRVAGDRHL	0.3048	1848.6	50.00	Rv2711, TB
DRB1_0405	131	IPGLVELGVGPEPGA	LVELGVGPE	0.3044	1855.8	50.00	Rv2711, TB
DRB1_0405	22	VTPLRARIAERLDQS	TPLRARIAE	0.3035	1874.1	50.00	Rv2711, TB
DRB1_0405	215	TLPHEMAHAVKVEKV	HEMAHAVKV	0.3031	1881.6	50.00	Rv2711, TB
DRB1_0405	122	PTSPFGNPIPLGVE	FGNPIPLGV	0.3007	1931.4	50.00	Rv2711, TB
DRB1_0405	188	VVPNARVTVETTPGG	NARVTVETT	0.2997	1952.8	50.00	Rv2711, TB
DRB1_0405	204	VIVIPGHENVTLPH	IVIPGHENV	0.2994	1959.4	50.00	Rv2711, TB
DRB1_0405	189	VPNARVTVETTPGGG	NARVTVETT	0.2986	1975.8	50.00	Rv2711, TB
DRB1_0405	132	PGLVELGVGPEPGAD	LVELGVGPE	0.2972	2007.4	50.00	Rv2711, TB
DRB1_0405	12	RTIYDLEEEGVTPLE	YDLEEEGVT	0.2965	2022.5	50.00	Rv2711, TB
DRB1_0405	191	NARVTVETTPGGGVT	RVTVETTPG	0.2964	2023.3	50.00	Rv2711, TB
DRB1_0405	203	GVTIVIPGHENVTL	GVTIVIPGH	0.2938	2081.4	50.00	Rv2711, TB
DRB1_0405	73	AVMRKHRLAERLLVD	RLAERLLVD	0.2909	2148.4	50.00	Rv2711, TB
DRB1_0405	61	LELTEKGRALAIAM	KGRALAIAM	0.2899	2170.5	50.00	Rv2711, TB
DRB1_0405	13	TIYDLEEEGVTPLE	YDLEEEGVT	0.2896	2177.9	50.00	Rv2711, TB
DRB1_0405	91	LPWEEVHAEACRWEH	LPWEEVHAE	0.2884	2206.2	50.00	Rv2711, TB
DRB1_0405	41	SQTVSRMERDGLLRV	SRMERDGLL	0.2852	2285.9	50.00	Rv2711, TB
DRB1_0405	214	VTLPHEMAHAVKVEK	MAHAVKVEK	0.2818	2371.1	50.00	Rv2711, TB
DRB1_0405	105	HVMSERVEDVRLVKVL	VERRLVKVL	0.2815	2378.3	50.00	Rv2711, TB
DRB1_0405	14	IYDLEEEGVTPLRAR	YDLEEEGVT	0.2771	2494.5	50.00	Rv2711, TB
DRB1_0405	68	RALAIAMRKHRLAE	RALAIAMR	0.2751	2548.8	50.00	Rv2711, TB
DRB1_0405	187	GVVNPARNVTVETTPG	NARVTVETT	0.2741	2575.8	50.00	Rv2711, TB
DRB1_0405	197	ETTPGGGVTIVIPGH	GGVTIVIPG	0.2730	2605.9	50.00	Rv2711, TB
DRB1_0405	40	VSQTVSRMERDGLLR	VSQTVSRME	0.2730	2607.9	50.00	Rv2711, TB
DRB1_0405	31	ERLDQSGPTVSQTVS	RLDQSGPTV	0.2686	2732.8	50.00	Rv2711, TB
DRB1_0405	39	TVSQTVSQTVSRMERD	VSQTVSRME	0.2681	2750.4	50.00	Rv2711, TB
DRB1_0405	133	GLVELGVGPEPGADD	LVELGVGPE	0.2661	2809.0	50.00	Rv2711, TB
DRB1_0405	32	RLDQSGPTVSQTVSR	RLDQSGPTV	0.2656	2822.9	50.00	Rv2711, TB
DRB1_0405	157	PAGSPVAVVVRQLTE	PVAVVVRQL	0.2615	2952.4	50.00	Rv2711, TB

DRB1_0405	30	AERLDQSGPTVSQTV	RLDQSGPTV	0.2581	3061.8	50.00	Rv2711, TB
DRB1_0405	94	EEVHAEACRWEHVMS	ACRWEHVMS	0.2559	3135.9	50.00	Rv2711, TB
DRB1_0405	26	RARIAERLDQSGPTV	RARIAERLD	0.2545	3183.6	50.00	Rv2711, TB
DRB1_0405	25	LRARIAERLDQSGPT	RARIAERLD	0.2542	3195.7	50.00	Rv2711, TB
DRB1_0405	183	LKDAGVVPNARVTVE	AGVVPNARV	0.2535	3219.1	50.00	Rv2711, TB
DRB1_0405	192	ARVTVETTPGGGVTTI	RVTVETTPG	0.2528	3245.2	50.00	Rv2711, TB
DRB1_0405	118	VLNNPTTSPFGNPPI	VLNNPTTSP	0.2526	3252.5	50.00	Rv2711, TB
DRB1_0405	186	AGVVPNARVTVETTP	NARVTVETTP	0.2512	3300.0	50.00	Rv2711, TB
DRB1_0405	29	IAERLDQSGPTVSQTV	RLDQSGPTV	0.2509	3311.4	50.00	Rv2711, TB
DRB1_0405	213	NVTLPHEMAHAVKVE	LPHEMAHAV	0.2498	3352.4	50.00	Rv2711, TB
DRB1_0405	33	LDQSGPTVSQTVSRM	PTVSQTVSR	0.2486	3393.3	50.00	Rv2711, TB
DRB1_0405	212	ENVTLPHEMAHAVKV	VTLPHEMAH	0.2477	3428.3	50.00	Rv2711, TB
DRB1_0405	72	IAVMRKHRLAERLLV	VMRKHRLAE	0.2456	3507.8	50.00	Rv2711, TB
DRB1_0405	104	EHVMSSEVERRLVKV	HVMSSEVER	0.2441	3563.0	50.00	Rv2711, TB
DRB1_0405	24	PLRARIAERLDQSGP	RARIAERLD	0.2438	3577.5	50.00	Rv2711, TB
DRB1_0405	121	NPTTSPFGNPPIGLV	FGNPPIGLV	0.2432	3597.6	50.00	Rv2711, TB
DRB1_0405	156	LPAGSPVAVVVRQLT	PVAVVVRQL	0.2381	3805.0	50.00	Rv2711, TB
DRB1_0405	69	ALAIIVMRKHRLAER	LAIIVMRKH	0.2367	3862.1	50.00	Rv2711, TB
DRB1_0405	143	PGADDANLVRLTELP	ANLVRLTEL	0.2354	3918.0	50.00	Rv2711, TB
DRB1_0405	185	DAGVVPNARVTVETQ	AGVVPNARV	0.2344	3960.0	50.00	Rv2711, TB
DRB1_0405	28	RIAERLDQSGPTVSQ	ERLDQSGPT	0.2343	3962.8	50.00	Rv2711, TB
DRB1_0405	70	LAIIVMRKHRLAERL	IIVMRKHRL	0.2310	4107.4	50.00	Rv2711, TB
DRB1_0405	142	EPGADDANLVRLTEL	ANLVRLTEL	0.2301	4147.0	50.00	Rv2711, TB
DRB1_0405	134	LVELGVGPEPGADDA	LVELGVGPE	0.2288	4203.6	50.00	Rv2711, TB
DRB1_0405	155	ELPAGSPVAVVVRQL	PVAVVVRQL	0.2260	4336.5	50.00	Rv2711, TB
DRB1_0405	71	ATAVMRKHRLAERLL	VMRKHRLAE	0.2256	4354.1	50.00	Rv2711, TB
DRB1_0405	27	ARIAERLDQSGPTVS	ERLDQSGPT	0.2222	4516.8	50.00	Rv2711, TB
DRB1_0405	152	RLTELPAGSPVAVVV	LPAGSPVAV	0.2221	4522.5	50.00	Rv2711, TB
DRB1_0405	193	RVTVETTPGGGVTTIV	RVTVETTPG	0.2211	4572.6	50.00	Rv2711, TB
DRB1_0405	153	LTELPAAGSPVAVVVV	LPAGSPVAV	0.2205	4602.1	50.00	Rv2711, TB
DRB1_0405	196	VETTPGGGVTTIVIPG	GGVTIVIPG	0.2167	4796.0	50.00	Rv2711, TB
DRB1_0405	60	HLELTEKGRALAIIV	KGRALAIIV	0.2097	5173.3	50.00	Rv2711, TB
DRB1_0405	141	PEPGADDANLVRLTE	EPGADDANL	0.2082	5256.2	50.00	Rv2711, TB
DRB1_0405	184	KDAGVVPNARVTVET	AGVVPNARV	0.2074	5302.7	50.00	Rv2711, TB
DRB1_0405	154	TELPAGSPVAVVVRQ	PAGSPVAVV	0.1983	5848.0	50.00	Rv2711, TB
DRB1_0405	140	GPEPGADDANLVRLT	EPGADDANL	0.1950	6065.3	50.00	Rv2711, TB
DRB1_0405	120	NNPTTSPFGNPPIGL	TTSPFGNPI	0.1942	6117.5	50.00	Rv2711, TB
DRB1_0405	92	PWEEVHAEACRWEHV	PWEEVHAEA	0.1938	6144.0	50.00	Rv2711, TB
DRB1_0405	55	VAGDRHLELTEKGRA	DRHLELTEK	0.1903	6381.2	50.00	Rv2711, TB
DRB1_0405	119	LNNPTTSPFGNPPIG	PTTSPFGNP	0.1887	6491.8	50.00	Rv2711, TB
DRB1_0405	54	RVAGDRHLELTEKGR	DRHLELTEK	0.1876	6569.1	50.00	Rv2711, TB
DRB1_0405	195	TVETTPGGGVTTIVIP	GGVTIVIP	0.1865	6643.8	50.00	Rv2711, TB
DRB1_0405	57	GDRHLELTEKGRALA	DRHLELTEK	0.1860	6680.2	50.00	Rv2711, TB
DRB1_0405	56	AGDRHLELTEKGRAL	GDRHLELTE	0.1841	6822.2	50.00	Rv2711, TB
DRB1_0405	194	VTVETTPGGGVTTIVI	VTVETTPGG	0.1782	7269.5	50.00	Rv2711, TB
DRB1_0405	59	RHLELTEKGRALAI	LELTEKGRA	0.1693	8002.6	50.00	Rv2711, TB
DRB1_0405	139	VGPEPGADDANLVRL	EPGADDANL	0.1676	8158.5	50.00	Rv2711, TB
DRB1_0405	58	DRHLELTEKGRALAI	LELTEKGRA	0.1562	9224.3	50.00	Rv2711, TB
DRB1_0405	137	LGVGPEPGADDANLV	PGADDANLV	0.1480	10085.0	50.00	Rv2711, TB
DRB1_0405	93	WEEVHAEACRWEHVM	WEEVHAEAC	0.1467	10221.5	50.00	Rv2711, TB
DRB1_0405	135	VELGVGPEPGADDAN	VELGVGPEP	0.1466	10235.0	50.00	Rv2711, TB
DRB1_0405	138	VGPEPGADDANLVR	EPGADDANL	0.1448	10440.1	50.00	Rv2711, TB
DRB1_0405	136	ELGVGPEPGADDANL	ELGVGPEPG	0.1401	10981.5	50.00	Rv2711, TB

Allele: DRB1\_0405. Number of high binders 18. Number of weak binders 38. Number of peptides 216

Allele	pos	peptide	core	l-log50k(aff)	affinity(nM)	Bind Level	%Random	Identity
DRB1_0701	47	MERDGLLRVAGDRHL	LRVAGDRHL	0.8705	4.1	SB	1.00	Rv2711, TB
DRB1_0701	48	ERDGLLRVAGDRHLE	LRVAGDRHL	0.8545	4.8	SB	2.00	Rv2711, TB
DRB1_0701	49	RDGLLRVAGDRHLEL	LRVAGDRHL	0.8504	5.0	SB	2.00	Rv2711, TB
DRB1_0701	50	DGLLRVAGDRHLELT	LRVAGDRHL	0.8262	6.6	SB	4.00	Rv2711, TB
DRB1_0701	51	GLLRVAGDRHLELTE	LRVAGDRHL	0.8090	7.9	SB	4.00	Rv2711, TB
DRB1_0701	52	LLRVAGDRHLELTEK	LRVAGDRHL	0.7892	9.8	SB	4.00	Rv2711, TB
DRB1_0701	53	LRVAGDRHLELTEKG	LRVAGDRHL	0.7637	12.9	SB	8.00	Rv2711, TB
DRB1_0701	0	MNELVDTTEMYLRTI	LVDTTTEMYL	0.7233	20.0	SB	8.00	Rv2711, TB
DRB1_0701	1	NELVDTTEMYLRTIY	LVDTTTEMYL	0.7040	24.6	SB	16.00	Rv2711, TB
DRB1_0701	3	LVDTTTEMYLRTIYDL	LVDTTTEMYL	0.6915	28.2	SB	16.00	Rv2711, TB
DRB1_0701	2	ELVDTTEMYLRTIYD	LVDTTTEMYL	0.6777	32.7	SB	16.00	Rv2711, TB
DRB1_0701	19	EEGVTPLRARIAERL	LRARIAERL	0.6401	49.1	SB	16.00	Rv2711, TB
DRB1_0701	67	GRALAIIVMRKHRLA	IIVMRKHRL	0.6296	55.0	WB	16.00	Rv2711, TB
DRB1_0701	71	ATAVMRKHRLAERLL	RKHRLAERL	0.6081	69.4	WB	16.00	Rv2711, TB
DRB1_0701	72	IIVMRKHRLAERLLV	HLAERLLV	0.6073	70.0	WB	16.00	Rv2711, TB
DRB1_0701	20	EGVTPLRARIAERLD	LRARIAERL	0.6047	72.0	WB	16.00	Rv2711, TB

DRB1_0701	159	GSPVAVVVRQLTEHV	VVRQLTEHV	0.5987	76.9	WB	32.00	Rv2711, TB
DRB1_0701	109	EDVERRLLVKVLNNPT	LVKVLNNPT	0.5943	80.6	WB	32.00	Rv2711, TB
DRB1_0701	70	LAIAVMRKHRLAERL	RKHRLAERL	0.5873	86.9	WB	32.00	Rv2711, TB
DRB1_0701	66	KGRPLAIAVMRKHRL	IAVMRKHRL	0.5869	87.3	WB	32.00	Rv2711, TB
DRB1_0701	68	RALAIAMVRKHRLAE	IAMVRKHRL	0.5820	92.1	WB	32.00	Rv2711, TB
DRB1_0701	110	DVERRLLVKVLNNPTT	LVKVLNNPT	0.5753	99.0	WB	32.00	Rv2711, TB
DRB1_0701	175	GDIDLITRLKDAGV	ITRLKDAGV	0.5706	104.2	WB	32.00	Rv2711, TB
DRB1_0701	21	GVTPLRARIAERLDQ	LRARIAERL	0.5599	117.0	WB	32.00	Rv2711, TB
DRB1_0701	97	HAEACRWEHVMSDEV	WEHVMSDEV	0.5509	128.9	WB	32.00	Rv2711, TB
DRB1_0701	212	ENVTLPHEMAHAVKV	HEMAHAVKV	0.5482	132.7	WB	32.00	Rv2711, TB
DRB1_0701	160	SPVAVVVRQLTEHVQ	VVRQLTEHV	0.5443	138.5	WB	32.00	Rv2711, TB
DRB1_0701	182	RLKDAGVVPNARVT	VVPNARVT	0.5283	164.6	WB	32.00	Rv2711, TB
DRB1_0701	155	ELPAGSPVAVVVRQL	PVAVVVRQL	0.5263	168.2	WB	32.00	Rv2711, TB
DRB1_0701	156	LPAGSPVAVVVRQLT	PVAVVVRQL	0.5218	176.7	WB	32.00	Rv2711, TB
DRB1_0701	111	VERRLLVKVLNNPTTS	LVKVLNNPT	0.5213	177.6	WB	32.00	Rv2711, TB
DRB1_0701	113	RRLVKVLNNPTTSPF	LNNPTTSPF	0.5206	178.9	WB	32.00	Rv2711, TB
DRB1_0701	73	AVMRKHRLAERLLVD	HRLAERLLV	0.5175	185.0	WB	32.00	Rv2711, TB
DRB1_0701	174	QGIDLITRLKDAGV	ITRLKDAGV	0.5134	193.4	WB	32.00	Rv2711, TB
DRB1_0701	69	ALAIAMVRKHRLAER	IAMVRKHRL	0.5129	194.5	WB	32.00	Rv2711, TB
DRB1_0701	22	VTPLRARIAERLDQS	LRARIAERL	0.5101	200.4	WB	32.00	Rv2711, TB
DRB1_0701	98	AEACRWEHVMSDEV	WEHVMSDEV	0.5095	201.7	WB	32.00	Rv2711, TB
DRB1_0701	176	DIDLITRLKDAGVVP	ITRLKDAGV	0.5039	214.3	WB	32.00	Rv2711, TB
DRB1_0701	213	NVTLPHEMAHAVKVE	HEMAHAVKV	0.5035	215.4	WB	32.00	Rv2711, TB
DRB1_0701	200	PGGGVTIVIPGHENV	IVIPGHENV	0.4971	230.7	WB	32.00	Rv2711, TB
DRB1_0701	157	PAGSPVAVVVRQLTE	PVAVVVRQL	0.4929	241.4	WB	32.00	Rv2711, TB
DRB1_0701	99	EACRWEHVMSDEV	WEHVMSDEV	0.4922	243.3	WB	32.00	Rv2711, TB
DRB1_0701	215	TLPHEMAHAVKVEKV	HEMAHAVKV	0.4917	244.7	WB	32.00	Rv2711, TB
DRB1_0701	181	TRLKDAGVVPNARVT	GVVPNARVT	0.4907	247.3	WB	32.00	Rv2711, TB
DRB1_0701	180	ITRLKDAGVVPNARV	AGVVPNARV	0.4838	266.5	WB	32.00	Rv2711, TB
DRB1_0701	142	EPGADDANLVRLETEL	ANLVRLETEL	0.4826	269.9	WB	32.00	Rv2711, TB
DRB1_0701	183	LKDAGVVPNARVTVE	VVPNARVT	0.4763	289.1	WB	32.00	Rv2711, TB
DRB1_0701	161	PVAVVVRQLTEHVQ	VVRQLTEHV	0.4723	301.9	WB	32.00	Rv2711, TB
DRB1_0701	114	RLVKVLNNPTTSPFG	LVKVLNNPT	0.4715	304.3	WB	32.00	Rv2711, TB
DRB1_0701	177	IDLITRLKDAGVVPN	ITRLKDAGV	0.4638	330.7	WB	32.00	Rv2711, TB
DRB1_0701	23	TPLRARIAERLDQSG	LRARIAERL	0.4629	334.0	WB	32.00	Rv2711, TB
DRB1_0701	201	GGGVTIVIPGHENV	IVIPGHENV	0.4611	340.4	WB	32.00	Rv2711, TB
DRB1_0701	74	VMRKHRLAERLLVDV	HRLAERLLV	0.4609	341.4	WB	32.00	Rv2711, TB
DRB1_0701	190	PNARVTVETTPGGGV	VETTPGGGV	0.4609	341.5	WB	32.00	Rv2711, TB
DRB1_0701	101	CRWEHVMSDEV	WEHVMSDEV	0.4553	362.7	WB	32.00	Rv2711, TB
DRB1_0701	16	DLEEEGVTPLRARIA	VTPLRARIA	0.4538	368.4	WB	50.00	Rv2711, TB
DRB1_0701	214	VTLPHEMAHAVKVEK	HEMAHAVKV	0.4480	392.7	WB	50.00	Rv2711, TB
DRB1_0701	100	ACRWEHVMSDEV	WEHVMSDEV	0.4473	395.4	WB	50.00	Rv2711, TB
DRB1_0701	112	ERRLVKVLNNPTTSP	LVKVLNNPT	0.4465	399.0	WB	50.00	Rv2711, TB
DRB1_0701	144	GADDANLVRLETEPA	ANLVRLETEL	0.4438	410.7	WB	50.00	Rv2711, TB
DRB1_0701	24	PLRARIAERLDQSGP	LRARIAERL	0.4380	437.1	WB	50.00	Rv2711, TB
DRB1_0701	105	HVMSDEVERRLVKVL	VERRLVKVL	0.4353	450.4	WB	50.00	Rv2711, TB
DRB1_0701	191	NARVTVETTPGGGV	VETTPGGGV	0.4347	453.5	WB	50.00	Rv2711, TB
DRB1_0701	89	IGLPWEEVHAEACRW	EVHAEACRW	0.4320	466.6	WB	50.00	Rv2711, TB
DRB1_0701	202	GGVTIVIPGHENVTL	IVIPGHENV	0.4320	466.8	WB	50.00	Rv2711, TB
DRB1_0701	184	KDAGVVPNARVTVET	VVPNARVT	0.4304	474.9	WB	50.00	Rv2711, TB
DRB1_0701	158	AGSPVAVVVRQLTEH	PVAVVVRQL	0.4297	478.7	WB	50.00	Rv2711, TB
DRB1_0701	192	ARVTVETTPGGGV	VETTPGGGV	0.4294	479.9	WB	50.00	Rv2711, TB
DRB1_0701	90	GLPWEEVHAEACRWE	EVHAEACRW	0.4255	500.8	WB	50.00	Rv2711, TB
DRB1_0701	178	DLITRLKDAGVVPNA	ITRLKDAGV	0.4254	501.4	WB	50.00	Rv2711, TB
DRB1_0701	25	LRARIAERLDQSGPT	LRARIAERL	0.4249	504.0	WB	50.00	Rv2711, TB
DRB1_0701	102	RWEHVMSDEV	WEHVMSDEV	0.4221	519.2	WB	50.00	Rv2711, TB
DRB1_0701	75	MRKHRLAERLLVDVI	HRLAERLLV	0.4169	549.7	WB	50.00	Rv2711, TB
DRB1_0701	115	LVKVLNNPTTSPFGN	LVKVLNNPT	0.4151	560.2	WB	50.00	Rv2711, TB
DRB1_0701	143	PGADDANLVRLETELP	ANLVRLETEL	0.4149	561.6	WB	50.00	Rv2711, TB
DRB1_0701	106	VMSDEVERRLVKVLN	VERRLVKVL	0.4062	617.1	WB	50.00	Rv2711, TB
DRB1_0701	17	LEEEGVTPLRARIAE	VTPLRARIA	0.4054	622.0	WB	50.00	Rv2711, TB
DRB1_0701	193	RVTVETTPGGGV	VETTPGGGV	0.4020	645.5	WB	50.00	Rv2711, TB
DRB1_0701	34	DQSGPTVSQTVSRME	TVSQTVSRM	0.3993	664.7	WB	50.00	Rv2711, TB
DRB1_0701	121	NPTTSPFGNPIPGLV	FGNPIPGLV	0.3976	677.0	WB	50.00	Rv2711, TB
DRB1_0701	107	MSEDEVERRLVKVLN	VERRLVKVL	0.3927	714.0	WB	50.00	Rv2711, TB
DRB1_0701	179	LITRLKDAGVVPNAR	ITRLKDAGV	0.3890	743.2	WB	50.00	Rv2711, TB
DRB1_0701	122	PTTSPFGNPIPGLVE	FGNPIPGLV	0.3878	753.1	WB	50.00	Rv2711, TB
DRB1_0701	203	GVTVIPGHENV	IVIPGHENV	0.3849	777.0	WB	50.00	Rv2711, TB
DRB1_0701	185	DAGVVPNARVTVET	VVPNARVT	0.3840	784.0	WB	50.00	Rv2711, TB
DRB1_0701	91	LPWEEVHAEACRWEH	EVHAEACRW	0.3833	790.6	WB	50.00	Rv2711, TB
DRB1_0701	117	KVLNNPTTSPFGNPI	TSPFGNPI	0.3831	792.3	WB	50.00	Rv2711, TB
DRB1_0701	5	DTTEMYLRTIYDLEE	MYLRTIYDL	0.3824	797.8	WB	50.00	Rv2711, TB
DRB1_0701	194	VTVETTPGGGV	VETTPGGGV	0.3815	805.6	WB	50.00	Rv2711, TB
DRB1_0701	4	VDTEMYLRTIYDLE	MYLRTIYDL	0.3789	828.8	WB	50.00	Rv2711, TB
DRB1_0701	103	WEHVMSDEV	WEHVMSDEV	0.3769	847.3	WB	50.00	Rv2711, TB
DRB1_0701	79	RLAERLLVDVIGLPW	LVDVIGLPW	0.3743	870.8	WB	50.00	Rv2711, TB
DRB1_0701	162	VAVVVRQLTEHVQGD	VVRQLTEHV	0.3741	873.5	WB	50.00	Rv2711, TB



DRB1_0701	76	RKHLAERLLVDDVIG	HRLAERLLV	0.3722	891.2	50.00	Rv2711, TB
DRB1_0701	123	TTSPFGNPIPLVLEL	FGNPIPLV	0.3684	928.5	50.00	Rv2711, TB
DRB1_0701	18	EEGVTPPLRARIAER	VTPLRARIA	0.3671	942.1	50.00	Rv2711, TB
DRB1_0701	33	LDQSGPTVTSQTVSRM	TVSQTVSRM	0.3636	977.7	50.00	Rv2711, TB
DRB1_0701	204	VTIVIPGHENVTLPH	IVIPGHENV	0.3634	979.9	50.00	Rv2711, TB
DRB1_0701	195	TVETTPGGGVTIVIP	VETTPGGGV	0.3612	1004.3	50.00	Rv2711, TB
DRB1_0701	186	AGVVPNARVTVETTP	VVPNARVTV	0.3599	1018.2	50.00	Rv2711, TB
DRB1_0701	35	QSGPTVTSQTVSRMR	TVSQTVSRM	0.3581	1037.7	50.00	Rv2711, TB
DRB1_0701	145	ADDANLVRLTELPAG	ANLVRLTEL	0.3575	1044.4	50.00	Rv2711, TB
DRB1_0701	58	DRHLELLEKGRALAI	ELTEKGRAL	0.3516	1113.2	50.00	Rv2711, TB
DRB1_0701	92	PWEEVHAEACRWEHV	EVHAEACRW	0.3502	1130.4	50.00	Rv2711, TB
DRB1_0701	163	AVVVRQLTEHVQGGDI	VVRQLTEHV	0.3497	1136.8	50.00	Rv2711, TB
DRB1_0701	187	GVPNARVTVETTPG	VVPNARVTV	0.3423	1231.3	50.00	Rv2711, TB
DRB1_0701	118	VLNNPTTSPFGNPIP	TTSPFGNPI	0.3385	1283.9	50.00	Rv2711, TB
DRB1_0701	80	LAERLLVDVIGLPWE	LVDVIGLPW	0.3379	1292.1	50.00	Rv2711, TB
DRB1_0701	196	VETTPGGGVTIVIPG	VETTPGGGV	0.3362	1315.8	50.00	Rv2711, TB
DRB1_0701	39	TVSQTVSRMERDGLL	SRMERDGLL	0.3359	1320.6	50.00	Rv2711, TB
DRB1_0701	205	TIVIPGHENVTLPH	IVIPGHENV	0.3334	1356.7	50.00	Rv2711, TB
DRB1_0701	108	SEVVERLLVKVLNNP	VERLLVKVL	0.3287	1427.1	50.00	Rv2711, TB
DRB1_0701	206	IVIPGHENVTLPH	IVIPGHENV	0.3274	1446.9	50.00	Rv2711, TB
DRB1_0701	93	WEVHAEACRWEHVM	EVHAEACRW	0.3262	1465.5	50.00	Rv2711, TB
DRB1_0701	6	TTEMYLRTIYDLEEE	MYLRTIYDL	0.3250	1484.9	50.00	Rv2711, TB
DRB1_0701	46	RMERDGLLRVAGDRH	LLRVAGDRH	0.3234	1510.5	50.00	Rv2711, TB
DRB1_0701	41	SQTVSRMERDGLLRV	MERDGLLRV	0.3227	1523.0	50.00	Rv2711, TB
DRB1_0701	152	RLTELPAGSPVAVVV	AGSPVAVVV	0.3177	1606.7	50.00	Rv2711, TB
DRB1_0701	62	ELTEKGRALAIAMR	RALAIAMR	0.3140	1672.7	50.00	Rv2711, TB
DRB1_0701	146	DDANLVRLTELPAGS	ANLVRLTEL	0.3124	1702.7	50.00	Rv2711, TB
DRB1_0701	61	LELLEKGRALAIAM	GRALAIAM	0.3118	1714.0	50.00	Rv2711, TB
DRB1_0701	40	VSQTVSRMERDGLLR	SRMERDGLL	0.3104	1739.0	50.00	Rv2711, TB
DRB1_0701	36	SGPTVTSQTVSRMER	VSQTVSRME	0.3078	1789.1	50.00	Rv2711, TB
DRB1_0701	56	AGDRHLELLEKGRAL	ELTEKGRAL	0.3077	1791.3	50.00	Rv2711, TB
DRB1_0701	164	VVVRQLTEHVQGGDID	VVRQLTEHV	0.3068	1807.8	50.00	Rv2711, TB
DRB1_0701	82	ERLLVDVIGLPWEEV	LVDVIGLPW	0.3047	1850.4	50.00	Rv2711, TB
DRB1_0701	153	LTELPAGSPVAVVV	AGSPVAVVV	0.3047	1850.9	50.00	Rv2711, TB
DRB1_0701	59	RHLELLEKGRALAI	ELTEKGRAL	0.3037	1870.6	50.00	Rv2711, TB
DRB1_0701	57	GDRHLELLEKGRALA	ELTEKGRAL	0.3018	1909.9	50.00	Rv2711, TB
DRB1_0701	148	ANLVRLTELPAGSPV	ANLVRLTEL	0.2988	1972.7	50.00	Rv2711, TB
DRB1_0701	81	AERLLVDVIGLPWEE	LVDVIGLPW	0.2984	1979.9	50.00	Rv2711, TB
DRB1_0701	60	HLELLEKGRALAIAM	ELTEKGRAL	0.2953	2048.4	50.00	Rv2711, TB
DRB1_0701	77	KHLAERLLVDDVIGL	HRLAERLLV	0.2944	2068.0	50.00	Rv2711, TB
DRB1_0701	147	DANLVRLTELPAGSP	ANLVRLTEL	0.2939	2079.5	50.00	Rv2711, TB
DRB1_0701	94	EEVHAEACRWEHVMS	EVHAEACRW	0.2917	2128.8	50.00	Rv2711, TB
DRB1_0701	63	LTEKGRALAIAMRKH	ALAIAMRKH	0.2901	2166.3	50.00	Rv2711, TB
DRB1_0701	124	TSPFGNPIPLVLELG	FGNPIPLV	0.2893	2186.4	50.00	Rv2711, TB
DRB1_0701	188	VVPNARVTVETTPGG	VVPNARVTV	0.2875	2229.1	50.00	Rv2711, TB
DRB1_0701	11	LRTIYDLEEEGVTP	LEEEGVTP	0.2871	2237.5	50.00	Rv2711, TB
DRB1_0701	119	LNNPTTSPFGNPIP	TTSPFGNPI	0.2825	2352.8	50.00	Rv2711, TB
DRB1_0701	83	LLVDVIGLPWEEVH	LVDVIGLPW	0.2821	2361.5	50.00	Rv2711, TB
DRB1_0701	95	EVHAEACRWEHVMS	EVHAEACRW	0.2815	2377.5	50.00	Rv2711, TB
DRB1_0701	116	VKVLNNPTTSPFGNP	LNNPTTSPF	0.2790	2442.4	50.00	Rv2711, TB
DRB1_0701	7	TEMYLRTIYDLEEE	MYLRTIYDL	0.2788	2449.3	50.00	Rv2711, TB
DRB1_0701	125	SFGNPIPLVLELGV	FGNPIPLV	0.2771	2495.0	50.00	Rv2711, TB
DRB1_0701	38	PTVTSQTVSRMERDGL	VSQTVSRME	0.2763	2516.2	50.00	Rv2711, TB
DRB1_0701	15	YDLEEEGVTPLRARI	GVTPLRARI	0.2748	2557.3	50.00	Rv2711, TB
DRB1_0701	165	VVRQLTEHVQGGDID	VVRQLTEHV	0.2736	2590.2	50.00	Rv2711, TB
DRB1_0701	37	GPTVTSQTVSRMERD	VSQTVSRME	0.2681	2748.6	50.00	Rv2711, TB
DRB1_0701	154	TELPAGSPVAVVV	AGSPVAVVV	0.2650	2842.2	50.00	Rv2711, TB
DRB1_0701	64	TEKGRALAIAMRKH	ALAIAMRKH	0.2642	2867.1	50.00	Rv2711, TB
DRB1_0701	42	QTVSRMERDGLLRVA	MERDGLLRV	0.2639	2878.1	50.00	Rv2711, TB
DRB1_0701	149	NLVRLTELPAGSPVA	ELPAGSPVA	0.2598	3007.4	50.00	Rv2711, TB
DRB1_0701	65	EKGRALAIAMRKH	ALAIAMRKH	0.2584	3052.7	50.00	Rv2711, TB
DRB1_0701	126	PFGNPIPLVLELGV	FGNPIPLV	0.2573	3089.1	50.00	Rv2711, TB
DRB1_0701	150	LVRLTELPAGSPVAV	ELPAGSPVA	0.2511	3305.6	50.00	Rv2711, TB
DRB1_0701	151	VRLTELPAGSPVAVV	ELPAGSPVA	0.2505	3324.1	50.00	Rv2711, TB
DRB1_0701	84	LLVDVIGLPWEEVHA	LVDVIGLPW	0.2505	3327.4	50.00	Rv2711, TB
DRB1_0701	127	FGNPIPLVLELGVGP	FGNPIPLV	0.2458	3500.2	50.00	Rv2711, TB
DRB1_0701	8	EMYLRTIYDLEEEGV	MYLRTIYDL	0.2456	3508.3	50.00	Rv2711, TB
DRB1_0701	54	RVAGDRHLELLEKGR	VAGDRHLEL	0.2361	3888.2	50.00	Rv2711, TB
DRB1_0701	12	RTIYDLEEEGVTP	LEEEGVTP	0.2360	3892.3	50.00	Rv2711, TB
DRB1_0701	78	HRLAERLLVDDVIGL	HRLAERLLV	0.2344	3959.5	50.00	Rv2711, TB
DRB1_0701	120	NNPTTSPFGNPIPGL	TTSPFGNPI	0.2264	4318.1	50.00	Rv2711, TB
DRB1_0701	198	TPGGGVTIVIPGHE	VTIVIPGHE	0.2257	4351.1	50.00	Rv2711, TB
DRB1_0701	9	MYLRTIYDLEEEGV	MYLRTIYDL	0.2235	4453.2	50.00	Rv2711, TB
DRB1_0701	55	VAGDRHLELLEKGRA	VAGDRHLEL	0.2210	4578.3	50.00	Rv2711, TB
DRB1_0701	199	TPGGGVTIVIPGHEN	VTIVIPGHE	0.2208	4584.7	50.00	Rv2711, TB
DRB1_0701	27	ARIAERLDQSGPTVS	LDQSGPTVS	0.2167	4791.5	50.00	Rv2711, TB
DRB1_0701	13	TIYDLEEEGVTP	LEEEGVTP	0.2153	4868.9	50.00	Rv2711, TB

DRB1_0701	85	LVDVIGLPWEEVHAE	LVDVIGLPW	0.2124	5023.2	50.00	Rv2711, TB
DRB1_0701	30	AERLDQSGPTVSQTV	SGPTVSQTV	0.2119	5048.2	50.00	Rv2711, TB
DRB1_0701	43	TVSRMERDGLLRVAG	MERDGLLRV	0.2090	5212.7	50.00	Rv2711, TB
DRB1_0701	208	VIPGHENVTLPHEMAH	ENVTLPHEM	0.1942	6118.6	50.00	Rv2711, TB
DRB1_0701	31	ERLDQSGPTVSQTVS	SGPTVSQTV	0.1925	6226.2	50.00	Rv2711, TB
DRB1_0701	28	RIAERLDQSGPTVSQ	LDQSGPTVS	0.1901	6392.9	50.00	Rv2711, TB
DRB1_0701	210	GHENVTLPHEMAHAV	LPHEMAHAV	0.1889	6473.8	50.00	Rv2711, TB
DRB1_0701	207	VIPGHENVTLPHEMA	ENVTLPHEM	0.1883	6519.2	50.00	Rv2711, TB
DRB1_0701	87	DVIGLPWEEVHAEAC	WEEVHAEAC	0.1880	6536.6	50.00	Rv2711, TB
DRB1_0701	167	RQLTEHVQGDIDLIT	LTEHVQGDI	0.1846	6785.7	50.00	Rv2711, TB
DRB1_0701	32	RLDQSGPTVSQTVSR	SGPTVSQTV	0.1841	6819.4	50.00	Rv2711, TB
DRB1_0701	166	VRLTEHVQGDIDLIT	LTEHVQGDI	0.1773	7341.8	50.00	Rv2711, TB
DRB1_0701	14	IYDLEEEGVTPLRAR	LEEEGVTPLR	0.1745	7569.7	50.00	Rv2711, TB
DRB1_0701	44	VSRMERDGLLRVAGD	MERDGLLRV	0.1728	7707.1	50.00	Rv2711, TB
DRB1_0701	29	IAERLDQSGPTVSQT	LDQSGPTVS	0.1692	8015.0	50.00	Rv2711, TB
DRB1_0701	45	SRMERDGLLRVAGDR	MERDGLLRV	0.1615	8711.9	50.00	Rv2711, TB
DRB1_0701	88	VIGLPWEEVHAEACR	WEEVHAEAC	0.1613	8727.9	50.00	Rv2711, TB
DRB1_0701	211	HENVTLPHEMAHAVK	LPHEMAHAV	0.1585	8998.7	50.00	Rv2711, TB
DRB1_0701	168	QLTEHVQGDIDLITR	LTEHVQGDI	0.1522	9629.6	50.00	Rv2711, TB
DRB1_0701	209	PHENVTLPHEMAHA	ENVTLPHEM	0.1515	9706.5	50.00	Rv2711, TB
DRB1_0701	104	EHVMSDEVRELRVKV	MSEDEVRELR	0.1380	11234.9	50.00	Rv2711, TB
DRB1_0701	26	RARIAERLDQSGPTV	RLDQSGPTV	0.1367	11387.5	50.00	Rv2711, TB
DRB1_0701	169	LTEHVQGDIDLITRL	LTEHVQGDI	0.1348	11630.3	50.00	Rv2711, TB
DRB1_0701	189	VPNARVTVETTPGGG	TVETTPGGG	0.1096	15273.0	50.00	Rv2711, TB
DRB1_0701	10	YLRTIYDLEEEGVTP	LRTIYDLEE	0.1078	15574.2	50.00	Rv2711, TB
DRB1_0701	171	EHVQGDIDLITRLKD	VQGDIDLIT	0.1024	16504.2	50.00	Rv2711, TB
DRB1_0701	170	TEHVQGDIDLITRLK	VQGDIDLIT	0.1010	16764.0	50.00	Rv2711, TB
DRB1_0701	96	VHAEACRWEHVMSED	CRWEHVMSE	0.0982	17277.6	50.00	Rv2711, TB
DRB1_0701	172	HVQGDIDLITRLKDA	VQGDIDLIT	0.0968	17552.2	50.00	Rv2711, TB
DRB1_0701	139	VGPEPGADDANLVRL	ADDANLVRL	0.0907	18734.7	50.00	Rv2711, TB
DRB1_0701	173	VQGDIDLITRLKDG	VQGDIDLIT	0.0815	20698.5	50.00	Rv2711, TB
DRB1_0701	128	GNPIPGLVELGVGPE	LVELGVGPE	0.0797	21103.5	50.00	Rv2711, TB
DRB1_0701	140	GPEPGADDANLVRLT	ADDANLVRL	0.0797	21117.6	50.00	Rv2711, TB
DRB1_0701	86	VDVIGLPWEEVHAEA	VIGLPWEEV	0.0771	21270.8	50.00	Rv2711, TB
DRB1_0701	197	ETTPGGGVTVIPGH	TTPGGGVTVI	0.0743	22378.8	50.00	Rv2711, TB
DRB1_0701	141	PEPGADDANLVRLTE	ADDANLVRL	0.0678	24008.0	50.00	Rv2711, TB
DRB1_0701	138	GVGPEPGADDANLVR	GADDANLVR	0.0589	26431.7	50.00	Rv2711, TB
DRB1_0701	134	LVELGVGPEPGADDA	GPEPGADDA	0.0570	26995.6	50.00	Rv2711, TB
DRB1_0701	137	LVGVPPEPGADDANLV	PGADDANLV	0.0568	27043.8	50.00	Rv2711, TB
DRB1_0701	136	ELGVGPEPGADDANL	GPEPGADDA	0.0520	28474.7	50.00	Rv2711, TB
DRB1_0701	132	PGLVELGVGPEPGAD	GVGPEPGAD	0.0514	28685.0	50.00	Rv2711, TB
DRB1_0701	135	VELGVGPEPGADDAN	GPEPGADDA	0.0508	28860.9	50.00	Rv2711, TB
DRB1_0701	130	PIPGLVELGVGPEPG	LVELGVGPE	0.0492	29357.9	50.00	Rv2711, TB
DRB1_0701	133	GLVELGVGPEPGADD	GVGPEPGAD	0.0489	29470.5	50.00	Rv2711, TB
DRB1_0701	131	IPGLVELGVGPEPGA	ELGVGPEPG	0.0483	29638.1	50.00	Rv2711, TB
DRB1_0701	129	NPPIPGLVELGVGPEP	LVELGVGPE	0.0470	30052.7	50.00	Rv2711, TB

Allele: DRB1\_0701. Number of high binders 12. Number of weak binders 56. Number of peptides 216

Allele	pos	peptide	core	1-log50k(aff)	affinity(nM)	Bind Level	%Random	Identity
DRB1_0802	71	AIAVMRKHRLAERLL	AVMRKHRLA	0.6780	32.6	SB	0.80	Rv2711, TB
DRB1_0802	70	LAIAVMRKHRLAERL	AVMRKHRLA	0.6655	37.3	SB	0.80	Rv2711, TB
DRB1_0802	72	IAVMRKHRLAERLLV	AVMRKHRLA	0.6531	42.7	SB	1.00	Rv2711, TB
DRB1_0802	69	ALAIAMRKHRLAER	AVMRKHRLA	0.6149	64.5	WB	2.00	Rv2711, TB
DRB1_0802	73	AVMRKHRLAERLLVD	AVMRKHRLA	0.5993	76.3	WB	4.00	Rv2711, TB
DRB1_0802	68	RALAIAMRKHRLAE	AVMRKHRLA	0.5970	78.3	WB	4.00	Rv2711, TB
DRB1_0802	67	GRALAIAMRKHRLA	AVMRKHRLA	0.5695	105.4	WB	4.00	Rv2711, TB
DRB1_0802	159	GSPVAVVVRQLTEHV	VAVVVRQLT	0.5335	155.6	WB	8.00	Rv2711, TB
DRB1_0802	161	PVAVVVRQLTEHVQ	VAVVVRQLT	0.5134	193.4	WB	8.00	Rv2711, TB
DRB1_0802	21	GVTPLRRIAERLDQ	GVTPLRARI	0.5109	198.7	WB	8.00	Rv2711, TB
DRB1_0802	160	SPVAVVVRQLTEHVQ	VAVVVRQLT	0.5050	211.8	WB	8.00	Rv2711, TB
DRB1_0802	20	EGVTPLRARIAERLD	GVTPLRARI	0.5025	217.7	WB	8.00	Rv2711, TB
DRB1_0802	158	AGSPVAVVVRQLTEH	VAVVVRQLT	0.4897	249.9	WB	8.00	Rv2711, TB
DRB1_0802	178	DLITRLKDGAVVPNA	LITRLKDAG	0.4750	293.2	WB	16.00	Rv2711, TB
DRB1_0802	177	IDLITRLKDGAVVPL	LITRLKDAG	0.4740	296.3	WB	16.00	Rv2711, TB
DRB1_0802	66	KGRALAIAMRKHRL	AIAVMRKHR	0.4646	328.1	WB	16.00	Rv2711, TB
DRB1_0802	157	PAGSPVAVVVRQLTE	VAVVVRQLT	0.4628	334.5	WB	16.00	Rv2711, TB
DRB1_0802	176	DIDLITRLKDGAVVP	LITRLKDAG	0.4617	338.4	WB	16.00	Rv2711, TB
DRB1_0802	111	VERRLVKVLNNPPTS	LVKVLNNP	0.4568	357.0	WB	16.00	Rv2711, TB
DRB1_0802	110	DEVERRLVKVLNNP	LVKVLNNP	0.4500	384.3	WB	16.00	Rv2711, TB
DRB1_0802	179	LITRLKDGAVVPNAR	LITRLKDAG	0.4483	391.2	WB	16.00	Rv2711, TB
DRB1_0802	19	EEGVTPLRARIAERL	GVTPLRARI	0.4481	391.9	WB	16.00	Rv2711, TB
DRB1_0802	156	LPAGSPVAVVVRQLT	PVAVVVRQL	0.4444	408.0	WB	16.00	Rv2711, TB

DRB1_0802	175	GDIDLITRLKDGAVV	LITRLKDGAG	0.4389	432.9	WB	16.00	Rv2711, TB
DRB1_0802	112	ERRLVKVLNNPTTSP	RLVKVLNNP	0.4365	444.6	WB	16.00	Rv2711, TB
DRB1_0802	22	VTPLRARIAERLDQS	VTPLRARIA	0.4305	474.5	WB	16.00	Rv2711, TB
DRB1_0802	174	QGDIDLITRLKDGAV	LITRLKDGAG	0.4166	551.0		16.00	Rv2711, TB
DRB1_0802	113	RLVKVLNNPTTSPF	LVKVLNNPT	0.4058	619.8		32.00	Rv2711, TB
DRB1_0802	37	GPTVSQTVSRMERD	GPTVSQTVS	0.4055	621.4		32.00	Rv2711, TB
DRB1_0802	18	EEGVTPPLRARIAE	GVTPLRARI	0.4028	639.8		32.00	Rv2711, TB
DRB1_0802	109	EEVRRLVKVLNNPT	LVKVLNNPT	0.3999	660.1		32.00	Rv2711, TB
DRB1_0802	114	RLVKVLNNPTTSPFG	LVKVLNNPT	0.3958	690.6		32.00	Rv2711, TB
DRB1_0802	76	RKHRLAERLLVDVIG	RKHRLAERL	0.3902	733.5		32.00	Rv2711, TB
DRB1_0802	149	NLVRLTELPAGSPVA	NLVRLTELP	0.3833	790.2		32.00	Rv2711, TB
DRB1_0802	162	VAVVVRQLTEHVQGD	VAVVVRQLT	0.3814	806.7		32.00	Rv2711, TB
DRB1_0802	148	ANLVRLTELPAGSPV	NLVRLTELP	0.3788	830.0		32.00	Rv2711, TB
DRB1_0802	74	VMRKHRLAERLLVDV	RKHRLAERL	0.3786	831.5		32.00	Rv2711, TB
DRB1_0802	36	SGPTVSQTVSRMERD	GPTVSQTVS	0.3756	859.3		32.00	Rv2711, TB
DRB1_0802	17	LEEEGVTPPLRARIAE	GVTPLRARI	0.3751	864.0		32.00	Rv2711, TB
DRB1_0802	75	MRKHRLAERLLVDVI	RKHRLAERL	0.3746	868.4		32.00	Rv2711, TB
DRB1_0802	40	VSQTVSRMERDGLLR	VSQTVSRME	0.3743	871.0		32.00	Rv2711, TB
DRB1_0802	173	VQGDIDLITRLKDGAV	LITRLKDGAG	0.3689	924.2		32.00	Rv2711, TB
DRB1_0802	16	DLEEEGVTPPLRARIA	GVTPLRARI	0.3620	995.6		32.00	Rv2711, TB
DRB1_0802	35	SGPTVSQTVSRMERD	GPTVSQTVS	0.3598	1019.7		32.00	Rv2711, TB
DRB1_0802	38	PTVSQTVSRMERDGL	TVSQTVS	0.3593	1025.2		32.00	Rv2711, TB
DRB1_0802	39	TVSQTVS	VSQTVSRME	0.3591	1027.1		32.00	Rv2711, TB
DRB1_0802	62	ELTEKGRALAIIVMR	LTEKGRALA	0.3581	1037.7		32.00	Rv2711, TB
DRB1_0802	147	DANLVRLTELPAGSP	NLVRLTELP	0.3578	1041.4		32.00	Rv2711, TB
DRB1_0802	65	EKGRALAIIVMRKHR	AIAVMRKHR	0.3530	1096.6		32.00	Rv2711, TB
DRB1_0802	4	VDTTEMYLRTIYDLE	YLRTIYDLE	0.3494	1140.9		32.00	Rv2711, TB
DRB1_0802	61	LELTEKGRALAIIVM	LTEKGRALA	0.3479	1158.7		32.00	Rv2711, TB
DRB1_0802	43	TVSRMERDGLLRVAG	TVSRMERDG	0.3474	1165.7		32.00	Rv2711, TB
DRB1_0802	6	TTEMYLRTIYDLEEE	YLRTIYDLE	0.3416	1241.1		32.00	Rv2711, TB
DRB1_0802	182	RLKDAGVVPNARVTV	RLKDAGVVP	0.3405	1255.4		32.00	Rv2711, TB
DRB1_0802	24	PLRARIAERLDQSGP	LRARIAERL	0.3403	1258.9		32.00	Rv2711, TB
DRB1_0802	5	DTEMYLRTIYDLEE	YLRTIYDLE	0.3378	1293.3		32.00	Rv2711, TB
DRB1_0802	63	LTEKGRALAIIVMRK	LTEKGRALA	0.3351	1330.8		32.00	Rv2711, TB
DRB1_0802	146	DDANLVRLTELPAGS	NLVRLTELP	0.3351	1331.4		32.00	Rv2711, TB
DRB1_0802	41	SQTVSRMERDGLLRV	SQTVSRMER	0.3294	1416.8		32.00	Rv2711, TB
DRB1_0802	49	RDGLLRVAGDRHLEL	RDGLLRVAG	0.3283	1433.7		32.00	Rv2711, TB
DRB1_0802	23	TPLRARIAERLDQSG	LRARIAERL	0.3272	1450.6		32.00	Rv2711, TB
DRB1_0802	46	RMERDGLLRVAGDRH	RMERDGLLR	0.3270	1454.1		32.00	Rv2711, TB
DRB1_0802	60	HLELTEKGRALAIIV	LTEKGRALA	0.3267	1457.9		32.00	Rv2711, TB
DRB1_0802	108	SEVRRLVKVLNNPT	VERRLVKVL	0.3260	1470.0		32.00	Rv2711, TB
DRB1_0802	25	LRARIAERLDQSGPT	LRARIAERL	0.3256	1476.2		32.00	Rv2711, TB
DRB1_0802	126	FGNPIPGLVELGVG	FGNPIPGLV	0.3247	1489.7		32.00	Rv2711, TB
DRB1_0802	124	TSPFGNPIPGLVELG	FGNPIPGLV	0.3232	1514.1		32.00	Rv2711, TB
DRB1_0802	155	ELPAGSPVAVVVRQL	PVAVVVRQL	0.3220	1534.4		32.00	Rv2711, TB
DRB1_0802	187	GVVVPNARVTVETTPG	GVVVPNARVT	0.3185	1593.5		50.00	Rv2711, TB
DRB1_0802	181	TRLKDAGVVPNARVT	RLKDAGVVP	0.3184	1595.4		50.00	Rv2711, TB
DRB1_0802	123	TTSPPFGNPIPGLVEL	FGNPIPGLV	0.3184	1595.5		50.00	Rv2711, TB
DRB1_0802	48	ERDGLLRVAGDRHLE	RDGLLRVAG	0.3146	1661.5		50.00	Rv2711, TB
DRB1_0802	34	DQSGPTVSQTVSRME	GPTVSQTVS	0.3125	1699.8		50.00	Rv2711, TB
DRB1_0802	115	LVKVLNNPTTSPFGN	LVKVLNNPT	0.3118	1712.8		50.00	Rv2711, TB
DRB1_0802	127	FGNPIPGLVELGVG	FGNPIPGLV	0.3101	1744.8		50.00	Rv2711, TB
DRB1_0802	125	SPFGNPIPGLVELGV	FGNPIPGLV	0.3082	1780.5		50.00	Rv2711, TB
DRB1_0802	45	SRMERDGLLRVAGDR	RMERDGLLR	0.3059	1826.5		50.00	Rv2711, TB
DRB1_0802	145	ADDANLVRLTELPAG	NLVRLTELP	0.3056	1832.2		50.00	Rv2711, TB
DRB1_0802	122	PTTSPFGNPIPGLVE	FGNPIPGLV	0.3027	1890.4		50.00	Rv2711, TB
DRB1_0802	7	TTEMYLRTIYDLEEE	YLRTIYDLE	0.3020	1904.5		50.00	Rv2711, TB
DRB1_0802	201	GGGVTVIVIPGHENVT	GGVTIVIPG	0.3009	1927.9		50.00	Rv2711, TB
DRB1_0802	59	RHLELTEKGRALAI	LTEKGRALA	0.2998	1950.8		50.00	Rv2711, TB
DRB1_0802	186	AGVVPNARVTVETTP	GVVVPNARVT	0.2956	2042.1		50.00	Rv2711, TB
DRB1_0802	77	KHRLAERLLVDVIGL	KHRLAERLL	0.2940	2076.8		50.00	Rv2711, TB
DRB1_0802	33	LDQSGPTVSQTVSRM	GPTVSQTVS	0.2929	2103.1		50.00	Rv2711, TB
DRB1_0802	47	MERDGLLRVAGDRHL	RDGLLRVAG	0.2908	2149.6		50.00	Rv2711, TB
DRB1_0802	42	QTVSRMERDGLLRVA	TVSRMERDG	0.2903	2161.8		50.00	Rv2711, TB
DRB1_0802	44	VSRMERDGLLRVAGD	RMERDGLLR	0.2900	2169.7		50.00	Rv2711, TB
DRB1_0802	106	VMSDEVRRLVKVLN	VERRLVKVL	0.2857	2273.0		50.00	Rv2711, TB
DRB1_0802	213	NVTLPHEMAHAVKVE	NVTLPHEMA	0.2844	2303.3		50.00	Rv2711, TB
DRB1_0802	107	MSEDVERRLVKVLNN	VERRLVKVL	0.2841	2311.1		50.00	Rv2711, TB
DRB1_0802	185	DAGVVPNARVTVETT	GVVVPNARVT	0.2834	2330.5		50.00	Rv2711, TB
DRB1_0802	144	GADDANLVRLTELP	NLVRLTELP	0.2809	2392.5		50.00	Rv2711, TB
DRB1_0802	58	DRHLELTEKGRALAI	LTEKGRALA	0.2809	2393.6		50.00	Rv2711, TB
DRB1_0802	200	PGGGVTIVIPGHENV	GVTIVIPGH	0.2797	2424.4		50.00	Rv2711, TB
DRB1_0802	121	NPTTSPFGNPIPGLV	FGNPIPGLV	0.2779	2472.8		50.00	Rv2711, TB
DRB1_0802	32	RLDQSGPTVSQTVSR	RLDQSGPTV	0.2777	2476.9		50.00	Rv2711, TB
DRB1_0802	15	YDLEEEGVTPPLRARI	GVTPLRARI	0.2775	2483.8		50.00	Rv2711, TB
DRB1_0802	202	GGVTIVIPGHENVT	GGVTIVIPG	0.2769	2498.8		50.00	Rv2711, TB
DRB1_0802	64	TEKGRALAIIVMRKH	KGRALAIIV	0.2765	2510.6		50.00	Rv2711, TB

DRB1_0802	51	GLLRVAGDRHLELTE	LLRVAGDRH	0.2763	2516.1	50.00	Rv2711, TB
DRB1_0802	180	ITRLKDAGVVPNARV	RLKDAGVVP	0.2755	2536.7	50.00	Rv2711, TB
DRB1_0802	215	PLPHEMAHAVKVEKV	HEMAHAVKV	0.2742	2572.2	50.00	Rv2711, TB
DRB1_0802	212	ENVTLPHEMAHAVKV	NVTLPHEMA	0.2730	2607.9	50.00	Rv2711, TB
DRB1_0802	52	LLRVAGDRHLELTEK	LLRVAGDRH	0.2716	2645.7	50.00	Rv2711, TB
DRB1_0802	57	GDRHLELTEKGRALA	LTEKGRALA	0.2715	2648.9	50.00	Rv2711, TB
DRB1_0802	8	MYLRTIYDLEEEGV	YLRTIYDLE	0.2709	2666.1	50.00	Rv2711, TB
DRB1_0802	9	MYLRTIYDLEEEGVT	YLRTIYDLE	0.2700	2691.7	50.00	Rv2711, TB
DRB1_0802	150	LVRLTELPAGSPVAV	LVRLTELPA	0.2664	2801.0	50.00	Rv2711, TB
DRB1_0802	3	LVDTTTEMYLRTIYDL	TTEMYLRTI	0.2654	2829.0	50.00	Rv2711, TB
DRB1_0802	214	VTLPHEMAHAVKVEK	HEMAHAVKV	0.2645	2857.5	50.00	Rv2711, TB
DRB1_0802	10	YLRTIYDLEEEGVTP	YLRTIYDLE	0.2630	2903.8	50.00	Rv2711, TB
DRB1_0802	183	LKDAGVVPNARVTVE	GVVPNARVT	0.2611	2965.1	50.00	Rv2711, TB
DRB1_0802	184	KDAGVVPNARVTVET	GVVPNARVT	0.2557	3145.0	50.00	Rv2711, TB
DRB1_0802	50	DGLLRVAGDRHLELT	LLRVAGDRH	0.2527	3248.0	50.00	Rv2711, TB
DRB1_0802	199	TPGGGVTIIVIPGHEN	GGVTIIVIPG	0.2494	3365.5	50.00	Rv2711, TB
DRB1_0802	26	RARIAERLDQSGPTV	RARIAERLD	0.2489	3382.6	50.00	Rv2711, TB
DRB1_0802	188	VVPNARVTVETTPGG	VVPNARVTV	0.2482	3407.8	50.00	Rv2711, TB
DRB1_0802	172	HVQGDIDLITRLKDA	DIDLITRLK	0.2471	3451.1	50.00	Rv2711, TB
DRB1_0802	164	VVVRQLTEHVQGDID	VVRQLTEHV	0.2460	3490.5	50.00	Rv2711, TB
DRB1_0802	2	ELVDTTTEMYLRTIYD	TTEMYLRTI	0.2426	3622.8	50.00	Rv2711, TB
DRB1_0802	163	AVVVRQLTEHVQGDI	VVRQLTEHV	0.2417	3658.2	50.00	Rv2711, TB
DRB1_0802	105	HVMSEDEVERRLVKVL	VERRLVKVL	0.2410	3686.5	50.00	Rv2711, TB
DRB1_0802	84	LLVDVIGLPWEEVHA	LVDVIGLPW	0.2404	3710.4	50.00	Rv2711, TB
DRB1_0802	53	LRVAGDRHLELTEK	RVAGDRHLE	0.2378	3815.1	50.00	Rv2711, TB
DRB1_0802	198	TPGGGVTIIVIPGHE	GGVTIIVIPG	0.2373	3837.2	50.00	Rv2711, TB
DRB1_0802	85	LVDVIGLPWEEVHAE	LVDVIGLPW	0.2367	3863.1	50.00	Rv2711, TB
DRB1_0802	31	ERLDQSGPTVSQTVS	RLDQSGPTV	0.2360	3892.0	50.00	Rv2711, TB
DRB1_0802	128	GNPIPGLVELGVGPE	PIPGLVELG	0.2335	3999.0	50.00	Rv2711, TB
DRB1_0802	189	VPNARVTVETTPGGG	RVTVETTPG	0.2298	4158.9	50.00	Rv2711, TB
DRB1_0802	165	VVRQLTEHVQGDIDL	VVRQLTEHV	0.2270	4288.3	50.00	Rv2711, TB
DRB1_0802	197	ETTPGGGVTIIVIPGH	GVTIIVIPGH	0.2242	4420.2	50.00	Rv2711, TB
DRB1_0802	210	GHENVTLPHEMAHAV	NVTLPHEMA	0.2212	4564.9	50.00	Rv2711, TB
DRB1_0802	190	PNARVTVETTPGGGV	PNARVTVET	0.2186	4695.0	50.00	Rv2711, TB
DRB1_0802	116	VKVLNNPTTSPFGNP	VKVLNNPTT	0.2182	4715.2	50.00	Rv2711, TB
DRB1_0802	211	HENVTLPHEMAHAVK	NVTLPHEMA	0.2173	4762.5	50.00	Rv2711, TB
DRB1_0802	56	AGDRHLELTEKGRAL	ELTEKGRAL	0.2070	5327.0	50.00	Rv2711, TB
DRB1_0802	209	PGHENVTLPHEMAHA	NVTLPHEMA	0.2068	5333.8	50.00	Rv2711, TB
DRB1_0802	1	NELVDTTTEMYLRTIY	VDTTTEMYLR	0.2058	5392.7	50.00	Rv2711, TB
DRB1_0802	129	NPIPGLVELGVGPEP	PIPGLVELG	0.2046	5461.7	50.00	Rv2711, TB
DRB1_0802	88	VIGLPWEEVHAEACR	VIGLPWEEV	0.2033	5544.0	50.00	Rv2711, TB
DRB1_0802	171	EHVQGDIDLITRLKD	DIDLITRLK	0.2027	5580.3	50.00	Rv2711, TB
DRB1_0802	130	PIPGLVELGVGPEPG	PIPGLVELG	0.1975	5901.7	50.00	Rv2711, TB
DRB1_0802	191	NARVTVETTPGGGVT	RVTVETTPG	0.1959	6003.4	50.00	Rv2711, TB
DRB1_0802	143	PGADDANLVRLTELP	NLVRLTELP	0.1956	6024.6	50.00	Rv2711, TB
DRB1_0802	83	RLLDVIGLPWEEVH	LVDVIGLPW	0.1955	6032.5	50.00	Rv2711, TB
DRB1_0802	154	TELPAGSPVAVVVRQ	ELPAGSPVA	0.1942	6117.5	50.00	Rv2711, TB
DRB1_0802	192	ARVTVETTPGGGVTI	RVTVETTPG	0.1933	6172.6	50.00	Rv2711, TB
DRB1_0802	193	RVTVETTPGGGVTIV	RVTVETTPG	0.1908	6343.5	50.00	Rv2711, TB
DRB1_0802	78	HRLAERLLVDVIGLP	HRLAERLLV	0.1902	6383.5	50.00	Rv2711, TB
DRB1_0802	87	DVIGLPWEEVHAEAC	VIGLPWEEV	0.1888	6484.5	50.00	Rv2711, TB
DRB1_0802	120	NNPTTSPFGNP IPGL	TSPFGNP IP	0.1879	6546.4	50.00	Rv2711, TB
DRB1_0802	208	IPGHENVTLPHEMAH	NVTLPHEMA	0.1870	6613.8	50.00	Rv2711, TB
DRB1_0802	86	VDVIGLPWEEVHAEA	GLPWEEVHA	0.1836	6856.7	50.00	Rv2711, TB
DRB1_0802	89	IGLPWEEVHAEACRW	GLPWEEVHA	0.1836	6859.5	50.00	Rv2711, TB
DRB1_0802	203	GVTIIVIPGHENVTLP	GVTIIVIPGH	0.1806	7081.3	50.00	Rv2711, TB
DRB1_0802	54	RVAGDRHLELTEKGR	RVAGDRHLE	0.1747	7550.8	50.00	Rv2711, TB
DRB1_0802	28	RIAERLDQSGPTVSQ	RIAERLDQS	0.1738	7628.4	50.00	Rv2711, TB
DRB1_0802	153	LTELPAGSPVAVVVR	ELPAGSPVA	0.1727	7716.9	50.00	Rv2711, TB
DRB1_0802	82	ERLLVDVIGLPWEEV	LVDVIGLPW	0.1723	7751.3	50.00	Rv2711, TB
DRB1_0802	207	VIPGHENVTLPHEMA	NVTLPHEMA	0.1718	7795.8	50.00	Rv2711, TB
DRB1_0802	196	VETTPGGGVTIIVIPG	GGVTIIVIPG	0.1689	8041.6	50.00	Rv2711, TB
DRB1_0802	104	EHVMSEDEVERRLVKV	DVERRLVKV	0.1678	8135.0	50.00	Rv2711, TB
DRB1_0802	27	ARIAERLDQSGPTVS	RIAERLDQS	0.1671	8197.1	50.00	Rv2711, TB
DRB1_0802	118	VLNNPTTSPFGNP IP	TSPFGNP IP	0.1664	8265.0	50.00	Rv2711, TB
DRB1_0802	95	EVHAEACRWEHVMS	VHAEACRWE	0.1649	8392.3	50.00	Rv2711, TB
DRB1_0802	151	VRLTELPAGSPVAVV	VRLTELPAG	0.1620	8665.4	50.00	Rv2711, TB
DRB1_0802	96	VHAEACRWEHVMS	VHAEACRWE	0.1616	8705.1	50.00	Rv2711, TB
DRB1_0802	90	GLPWEEVHAEACRWE	GLPWEEVHA	0.1606	8793.7	50.00	Rv2711, TB
DRB1_0802	103	WEHVMSDEVERRLVK	WEHVMSDEV	0.1592	8932.2	50.00	Rv2711, TB
DRB1_0802	55	VAGDRHLELTEKGRA	RHLELTEKG	0.1584	9005.3	50.00	Rv2711, TB
DRB1_0802	94	EEVHAEACRWEHVMS	VHAEACRWE	0.1577	9081.0	50.00	Rv2711, TB
DRB1_0802	0	MNELVDTTTEMYLRTI	VDTTTEMYLR	0.1572	9124.3	50.00	Rv2711, TB
DRB1_0802	97	HAEACRWEHVMS	EACRWEHVM	0.1572	9131.1	50.00	Rv2711, TB
DRB1_0802	79	RLAERLLVDVIGLPW	LVDVIGLPW	0.1543	9418.0	50.00	Rv2711, TB
DRB1_0802	30	AERLDQSGPTVSQTV	RLDQSGPTV	0.1539	9463.1	50.00	Rv2711, TB
DRB1_0802	133	GLVELGVGPEPGADD	GLVELGVGP	0.1538	9464.9	50.00	Rv2711, TB

DRB1_0802	98	AEACRWEHVMS	EACRWEHVM	0.1536	9488.7	50.00	Rv2711, TB
DRB1_0802	99	EACRWEHVMS	WEHVMS	0.1530	9550.5	50.00	Rv2711, TB
DRB1_0802	81	AERLLVDVIGL	LVDVIGLPW	0.1527	9581.5	50.00	Rv2711, TB
DRB1_0802	29	IAERLLDQSG	RLDQSGPTV	0.1488	9989.9	50.00	Rv2711, TB
DRB1_0802	80	LAERLLVDVIGL	LVDVIGLPW	0.1481	10072.4	50.00	Rv2711, TB
DRB1_0802	119	LNNPTTSPFG	TSPFGNPIP	0.1442	10500.0	50.00	Rv2711, TB
DRB1_0802	100	ACRWEHVMS	WEHVMS	0.1441	10513.6	50.00	Rv2711, TB
DRB1_0802	132	PGLVELGVG	GLVELGVGP	0.1409	10888.0	50.00	Rv2711, TB
DRB1_0802	102	RWEHVMS	WEHVMS	0.1371	11340.8	50.00	Rv2711, TB
DRB1_0802	170	TEHVQGDIDL	DIDLITRLK	0.1368	11376.0	50.00	Rv2711, TB
DRB1_0802	152	RLTELPAGSP	ELPAGSPVA	0.1352	11575.1	50.00	Rv2711, TB
DRB1_0802	101	CRWEHVMS	WEHVMS	0.1325	11921.9	50.00	Rv2711, TB
DRB1_0802	166	VRQLTEHVQ	VRQLTEHVQ	0.1317	12027.0	50.00	Rv2711, TB
DRB1_0802	117	KVLNNTTSP	VLNNTTSP	0.1294	12324.1	50.00	Rv2711, TB
DRB1_0802	12	RTIYDLEEE	TIYDLEEE	0.1281	12507.7	50.00	Rv2711, TB
DRB1_0802	11	LRTIYDLEE	TIYDLEEE	0.1277	12552.6	50.00	Rv2711, TB
DRB1_0802	131	PTGLVELGV	GLVELGVGP	0.1271	12640.1	50.00	Rv2711, TB
DRB1_0802	14	IYDLEEE	YDLEEE	0.1239	13082.1	50.00	Rv2711, TB
DRB1_0802	195	TVETTPGG	GGGVTVIVIP	0.1197	13689.9	50.00	Rv2711, TB
DRB1_0802	206	IVIPGHEN	IVIPGHEN	0.1179	13965.8	50.00	Rv2711, TB
DRB1_0802	194	VTVETTPG	VTVETTPGG	0.1178	13978.8	50.00	Rv2711, TB
DRB1_0802	93	WEEVHAE	VHAEACRWE	0.1162	14216.4	50.00	Rv2711, TB
DRB1_0802	204	VTIVIPGH	IVIPGHEN	0.1122	14851.9	50.00	Rv2711, TB
DRB1_0802	13	TIYDLEEE	TIYDLEEE	0.1115	14966.8	50.00	Rv2711, TB
DRB1_0802	205	TIVIPGH	TIVIPGHEN	0.1089	15382.2	50.00	Rv2711, TB
DRB1_0802	92	PWEEVHA	PWEEVHAEA	0.1074	15649.6	50.00	Rv2711, TB
DRB1_0802	91	LPWEEVH	VHAEACRWE	0.1037	16275.6	50.00	Rv2711, TB
DRB1_0802	167	RQLTEHVQ	RQLTEHVQ	0.0993	17071.7	50.00	Rv2711, TB
DRB1_0802	134	LVELGVG	LVELGVGPE	0.0957	17757.9	50.00	Rv2711, TB
DRB1_0802	135	VELGVG	VELGVGPEP	0.0940	18083.2	50.00	Rv2711, TB
DRB1_0802	142	EPGADDAN	GADDANLVR	0.0848	19978.7	50.00	Rv2711, TB
DRB1_0802	169	LTEHVQGD	HVQGDIDLI	0.0704	23336.0	50.00	Rv2711, TB
DRB1_0802	141	PEPGADDAN	GADDANLVR	0.0670	24213.1	50.00	Rv2711, TB
DRB1_0802	136	ELGVGPE	ELGVGPEPG	0.0667	24301.5	50.00	Rv2711, TB
DRB1_0802	168	QLTEHVQ	HVQGDIDLI	0.0603	26033.0	50.00	Rv2711, TB
DRB1_0802	140	GPEPGADDAN	DDANLVRT	0.0592	26362.0	50.00	Rv2711, TB
DRB1_0802	137	LGVGPE	LGVGPEPGA	0.0479	29778.2	50.00	Rv2711, TB
DRB1_0802	138	GVGPE	GADDANLVR	0.0455	30568.9	50.00	Rv2711, TB
DRB1_0802	139	VGPE	GADDANLVR	0.0437	31153.2	50.00	Rv2711, TB

Allele: DRB1\_0802. Number of high binders 3. Number of weak binders 23. Number of peptides 216

Allele	pos	peptide	core	1-log50k(aff)	affinity(nM)	Bind Level	%Random	Identity
DRB1_0901	75	MRKHRLAERLLVDVI	KHRLAERLL	0.6550	41.8	SB	2.00	Rv2711, TB
DRB1_0901	74	VMRKHRLAERLLVDV	KHRLAERLL	0.6499	44.2	SB	2.00	Rv2711, TB
DRB1_0901	73	AVMRKHRLAERLLVD	KHRLAERLL	0.6451	46.5	SB	2.00	Rv2711, TB
DRB1_0901	72	IAVMRKHRLAERLLV	KHRLAERLL	0.6250	57.8	WB	4.00	Rv2711, TB
DRB1_0901	76	RKHRLAERLLVDVIG	KHRLAERLL	0.6216	60.0	WB	4.00	Rv2711, TB
DRB1_0901	215	TLPHEMAHAVKVEKV	HEMAHAVKV	0.6079	69.6	WB	4.00	Rv2711, TB
DRB1_0901	101	CRWEHVMS	WEHVMS	0.5818	92.3	WB	8.00	Rv2711, TB
DRB1_0901	100	ACRWEHVMS	WEHVMS	0.5777	96.5	WB	8.00	Rv2711, TB
DRB1_0901	213	NVTLPHEMAHAVKVE	HEMAHAVKV	0.5772	97.0	WB	8.00	Rv2711, TB
DRB1_0901	214	VTLPHHEMAHAVKVEK	HEMAHAVKV	0.5712	103.5	WB	8.00	Rv2711, TB
DRB1_0901	21	GVTPLRRIAERLDQ	LRARIAERL	0.5688	106.2	WB	8.00	Rv2711, TB
DRB1_0901	20	EGVTPLRRIAERLD	LRARIAERL	0.5686	106.4	WB	8.00	Rv2711, TB
DRB1_0901	99	EACRWEHVMS	WEHVMS	0.5637	112.2	WB	8.00	Rv2711, TB
DRB1_0901	102	RWEHVMS	WEHVMS	0.5611	115.5	WB	8.00	Rv2711, TB
DRB1_0901	71	AIAVMRKHRLAERLL	KHRLAERLL	0.5578	119.6	WB	8.00	Rv2711, TB
DRB1_0901	22	VTPLRRIAERLDQS	LRARIAERL	0.5554	122.8	WB	8.00	Rv2711, TB
DRB1_0901	77	KHRLAERLLVDVIGL	KHRLAERLL	0.5519	127.5	WB	8.00	Rv2711, TB
DRB1_0901	98	AEACRWEHVMS	WEHVMS	0.5473	134.1	WB	16.00	Rv2711, TB
DRB1_0901	23	TPLRRIAERLDQSG	LRARIAERL	0.5370	149.8	WB	16.00	Rv2711, TB
DRB1_0901	19	EEGVTPLRRIAERL	TPLRRIAE	0.5265	167.9	WB	16.00	Rv2711, TB
DRB1_0901	8	EMYLRTIYDLEEE	YLRTIYDLE	0.5192	181.6	WB	16.00	Rv2711, TB
DRB1_0901	103	WEHVMS	WEHVMS	0.5180	184.1	WB	16.00	Rv2711, TB
DRB1_0901	212	ENVTLPHHEMAHAVKV	HEMAHAVKV	0.5156	188.8	WB	16.00	Rv2711, TB
DRB1_0901	65	EKGRALAIAVMRKHR	KGRALAIAV	0.5104	199.7	WB	16.00	Rv2711, TB
DRB1_0901	64	TEKGRALAIAVMRKH	EKGRALAI	0.5009	221.4	WB	16.00	Rv2711, TB
DRB1_0901	66	KGRALAIAVMRKHRL	KGRALAIAV	0.4986	227.0	WB	16.00	Rv2711, TB
DRB1_0901	127	FGNPIPGLVELGVGP	FGNPIPGLV	0.4985	227.4	WB	16.00	Rv2711, TB
DRB1_0901	126	PFGNPIPGLVELGVG	FGNPIPGLV	0.4919	244.1	WB	32.00	Rv2711, TB
DRB1_0901	63	LTEKGRALAIAVMRK	KGRALAIAV	0.4862	259.7	WB	32.00	Rv2711, TB
DRB1_0901	9	MYLRTIYDLEEE	YLRTIYDLE	0.4793	279.8	WB	32.00	Rv2711, TB

DRB1_0901	155	ELPAGSPVAVVVRQL	ELPAGSPVA	0.4769	287.1	WB	32.00	Rv2711, TB
DRB1_0901	125	SPFGNPIPGLVELGV	FGNPIPGLV	0.4679	316.6	WB	32.00	Rv2711, TB
DRB1_0901	153	LTELPAGSPVAVVVR	ELPAGSPVA	0.4679	316.6	WB	32.00	Rv2711, TB
DRB1_0901	62	ELTEKGRALAIIVMR	EKGRALAI	0.4676	317.6	WB	32.00	Rv2711, TB
DRB1_0901	6	TTEMYLRTIYDLEEE	YLRTIYDLE	0.4656	324.3	WB	32.00	Rv2711, TB
DRB1_0901	180	ITRLKDAGVVPNARV	ITRLKDAGV	0.4651	326.1	WB	32.00	Rv2711, TB
DRB1_0901	186	AGVVPNARVTVETTP	AGVVPNARV	0.4632	332.9	WB	32.00	Rv2711, TB
DRB1_0901	111	VERRLVKVLNNPTTS	RRLVKVLNN	0.4627	334.8	WB	32.00	Rv2711, TB
DRB1_0901	7	TEMYLRTIYDLEEEG	YLRTIYDLE	0.4627	334.8	WB	32.00	Rv2711, TB
DRB1_0901	154	TELPAGSPVAVVVRQ	ELPAGSPVA	0.4612	340.1	WB	32.00	Rv2711, TB
DRB1_0901	169	LTEHVQGDIDLITRL	EHVQGDIDL	0.4573	355.1	WB	32.00	Rv2711, TB
DRB1_0901	67	GRALAIIVMRKHLA	RALAIIVMR	0.4552	363.1	WB	32.00	Rv2711, TB
DRB1_0901	178	DLITRLKDAGVVPNA	ITRLKDAGV	0.4538	368.7	WB	32.00	Rv2711, TB
DRB1_0901	10	YLRTIYDLEEEGVTP	YLRTIYDLE	0.4537	369.1	WB	32.00	Rv2711, TB
DRB1_0901	168	QLTEHVQGDIDLITR	LTEHVQGDI	0.4518	376.5	WB	32.00	Rv2711, TB
DRB1_0901	177	IDLITRLKDAGVVPN	ITRLKDAGV	0.4505	382.1	WB	32.00	Rv2711, TB
DRB1_0901	179	LITRLKDAGVVPNAR	ITRLKDAGV	0.4501	383.5	WB	32.00	Rv2711, TB
DRB1_0901	167	RQLTEHVQGDIDLIT	LTEHVQGDI	0.4493	387.1	WB	32.00	Rv2711, TB
DRB1_0901	110	DVERRLVKVLNNPTT	VERRLVKVL	0.4481	392.2	WB	32.00	Rv2711, TB
DRB1_0901	5	DTTEMYLRTIYDLEE	YLRTIYDLE	0.4455	403.1	WB	32.00	Rv2711, TB
DRB1_0901	176	DIDLITRLKDAGVVP	ITRLKDAGV	0.4448	406.2	WB	32.00	Rv2711, TB
DRB1_0901	185	DAGVVPNARVTVETT	AGVVPNARV	0.4440	410.0	WB	32.00	Rv2711, TB
DRB1_0901	165	VVRQLTEHVQGDIDL	LTEHVQGDI	0.4402	426.8	WB	32.00	Rv2711, TB
DRB1_0901	18	EEEGVTPLRARIAER	EGVTPLRAR	0.4396	430.0	WB	32.00	Rv2711, TB
DRB1_0901	152	RLTELPAGSPVAVV	ELPAGSPVA	0.4392	431.6	WB	32.00	Rv2711, TB
DRB1_0901	97	HAEACRWEHVMSEDV	WEHVMSEDV	0.4391	432.3	WB	32.00	Rv2711, TB
DRB1_0901	104	EHVMSEDEVERRLVKV	EHVMSEDEV	0.4386	434.5	WB	32.00	Rv2711, TB
DRB1_0901	151	VRLTELPAGSPVAVV	ELPAGSPVA	0.4378	438.5	WB	32.00	Rv2711, TB
DRB1_0901	166	VRQLTEHVQGDIDL	LTEHVQGDI	0.4367	443.4	WB	32.00	Rv2711, TB
DRB1_0901	124	TSFPGNPIPGLVELG	FGNPIPGLV	0.4360	447.0	WB	32.00	Rv2711, TB
DRB1_0901	39	TVSQTVSRMERDGLL	VSQTVSRME	0.4341	456.0	WB	32.00	Rv2711, TB
DRB1_0901	150	LVRLTELPAGSPVAV	ELPAGSPVA	0.4334	459.6	WB	32.00	Rv2711, TB
DRB1_0901	112	ERRLVKVLNNPTTSP	VKVLNNPTT	0.4327	463.4	WB	32.00	Rv2711, TB
DRB1_0901	24	PLRARIAERLDQSGP	LRARIAERL	0.4323	465.0	WB	32.00	Rv2711, TB
DRB1_0901	128	GNPIPGLVELGVGPE	NPIPGLVEL	0.4323	465.0	WB	32.00	Rv2711, TB
DRB1_0901	50	DGLLRVAGDRHLELT	LRVAGDRHL	0.4317	468.2	WB	32.00	Rv2711, TB
DRB1_0901	36	SGPTVSQTVSRMERD	VSQTVSRME	0.4309	472.0	WB	32.00	Rv2711, TB
DRB1_0901	113	RRLVKVLNNPTTSPF	VKVLNNPTT	0.4306	474.0	WB	32.00	Rv2711, TB
DRB1_0901	17	LEEGVTPLRARIAER	EGVTPLRAR	0.4272	491.7	WB	32.00	Rv2711, TB
DRB1_0901	38	PTVSQTVSRMERDGL	VSQTVSRME	0.4252	502.3		50.00	Rv2711, TB
DRB1_0901	40	VSQTVSRMERDGLLR	VSQTVSRME	0.4245	506.3		50.00	Rv2711, TB
DRB1_0901	149	NLVRLTELPAGSPVA	NLVRTELP	0.4242	507.9		50.00	Rv2711, TB
DRB1_0901	156	LPAGSPVAVVVRQLT	LPAGSPVAV	0.4224	517.9		50.00	Rv2711, TB
DRB1_0901	164	VVVRQLTEHVQGDID	LTEHVQGDI	0.4211	524.9		50.00	Rv2711, TB
DRB1_0901	34	DQSGPTVSQTVSRME	GPTVSQTVS	0.4180	543.3		50.00	Rv2711, TB
DRB1_0901	35	QSGPTVSQTVSRMER	VSQTVSRME	0.4170	549.2		50.00	Rv2711, TB
DRB1_0901	184	KDAGVVPNARVTVET	AGVVPNARV	0.4161	554.5		50.00	Rv2711, TB
DRB1_0901	211	HENVTLPHEMAHAVK	NVTLPHEMA	0.4147	562.7		50.00	Rv2711, TB
DRB1_0901	49	RDGLLRVAGDRHLEL	LRVAGDRHL	0.4145	564.0		50.00	Rv2711, TB
DRB1_0901	61	LELTEKGRALAIIVM	EKGRALAI	0.4131	572.4		50.00	Rv2711, TB
DRB1_0901	78	HRLAERLLVDVIGLP	HRLAERLLV	0.4122	578.0		50.00	Rv2711, TB
DRB1_0901	175	GDIDLITRLKDAGVV	ITRLKDAGV	0.4111	585.3		50.00	Rv2711, TB
DRB1_0901	129	NPIPGLVELGVGPEP	NPIPGLVEL	0.4109	586.1		50.00	Rv2711, TB
DRB1_0901	181	TRLKDAGVVPNARVT	AGVVPNARV	0.4103	590.4		50.00	Rv2711, TB
DRB1_0901	148	ANLVRLTELPAGSPV	LVRLTELP	0.4101	591.2		50.00	Rv2711, TB
DRB1_0901	37	GPTVSQTVSRMERD	VSQTVSRME	0.4076	607.5		50.00	Rv2711, TB
DRB1_0901	88	VIGLPWEEVHAEACR	VIGLPWEEV	0.4061	617.7		50.00	Rv2711, TB
DRB1_0901	91	LPWEEVHAEACRWEH	EEVHAEACR	0.4060	618.3		50.00	Rv2711, TB
DRB1_0901	183	LKDAGVVPNARVTVE	AGVVPNARV	0.4056	620.9		50.00	Rv2711, TB
DRB1_0901	90	GLPWEEVHAEACRWE	EEVHAEACR	0.4048	626.3		50.00	Rv2711, TB
DRB1_0901	51	GLLRVAGDRHLELTE	LRVAGDRHL	0.4028	640.2		50.00	Rv2711, TB
DRB1_0901	68	RALAIIVMRKHLAEL	RALAIIVMR	0.4025	642.0		50.00	Rv2711, TB
DRB1_0901	182	RLKDAGVVPNARVTV	AGVVPNARV	0.4021	644.8		50.00	Rv2711, TB
DRB1_0901	48	ERDGLLRVAGDRHLE	LRVAGDRHL	0.4014	649.8		50.00	Rv2711, TB
DRB1_0901	163	AVVVRQLTEHVQGDI	VVRQLTEHV	0.4008	653.9		50.00	Rv2711, TB
DRB1_0901	123	TTSFPGNPIPGLVEL	FGNPIPGLV	0.3995	663.1		50.00	Rv2711, TB
DRB1_0901	4	VDTTEMYLRTIYDLE	YLRTIYDLE	0.3958	690.4		50.00	Rv2711, TB
DRB1_0901	107	MSEDVERRLVKVLNN	MSEDVERRL	0.3949	697.4		50.00	Rv2711, TB
DRB1_0901	210	GHENVTLPHEMAHAV	NVTLPHEMA	0.3937	705.9		50.00	Rv2711, TB
DRB1_0901	109	EDVERRLVKVLNNPT	VERRLVKVL	0.3927	713.9		50.00	Rv2711, TB
DRB1_0901	147	DANLVRLTELPAGSP	NLVRLTELP	0.3907	729.4		50.00	Rv2711, TB
DRB1_0901	106	VMSDEVERRLVKVLN	MSEDVERRL	0.3887	745.6		50.00	Rv2711, TB
DRB1_0901	92	PWEEVHAEACRWEHV	WEEVHAEAC	0.3877	753.9		50.00	Rv2711, TB
DRB1_0901	16	LEEGVTPLRARIAER	EGVTPLRAR	0.3838	786.2		50.00	Rv2711, TB
DRB1_0901	207	VIPGHENVTLPHEMA	IPGHENVTL	0.3837	787.1		50.00	Rv2711, TB
DRB1_0901	122	PTTSFPGNPIPGLVE	FGNPIPGLV	0.3804	816.0		50.00	Rv2711, TB
DRB1_0901	31	ERLDQSGPTVSQTVS	LDQSGPTVS	0.3793	825.6		50.00	Rv2711, TB

DRB1_0901	47	MERDGLLRVAGDRHL	LRVAGDRHL	0.3788	829.7	50.00	Rv2711, TB
DRB1_0901	32	RLDQSGPTVSQTVSR	LDQSGPTVS	0.3762	853.4	50.00	Rv2711, TB
DRB1_0901	108	SEDVERRLVKVLNNP	VERRLVKVL	0.3758	857.3	50.00	Rv2711, TB
DRB1_0901	209	PGHENVTLPHEMAHA	NVTLPHEMA	0.3750	864.8	50.00	Rv2711, TB
DRB1_0901	33	LDQSGPTVSQTVSRM	LDQSGPTVS	0.3749	865.2	50.00	Rv2711, TB
DRB1_0901	25	LRARIAERLDQSGPT	LRARIAERL	0.3746	868.2	50.00	Rv2711, TB
DRB1_0901	161	PVAVVVRQLTEHVQG	VAVVVRQLT	0.3738	875.8	50.00	Rv2711, TB
DRB1_0901	146	DDANLVRLTELPAGS	NLVRLTELP	0.3735	878.5	50.00	Rv2711, TB
DRB1_0901	70	LAIAMVRKHRLAERL	RKHRLAERL	0.3710	902.8	50.00	Rv2711, TB
DRB1_0901	114	RLVKVLNNPTTSPFG	VKVLNNPTT	0.3705	907.4	50.00	Rv2711, TB
DRB1_0901	41	SQTVSRMERDGLLRV	QTVSRMERD	0.3701	912.0	50.00	Rv2711, TB
DRB1_0901	0	MNELVDTTTEMYLRTI	LVDTTTEMYL	0.3688	924.3	50.00	Rv2711, TB
DRB1_0901	93	WEEVHAEACRWEHVM	WEEVHAEAC	0.3659	954.1	50.00	Rv2711, TB
DRB1_0901	105	HVMSEDVERRLVKVL	HVMSEDVER	0.3650	964.0	50.00	Rv2711, TB
DRB1_0901	1	NELVDTTTEMYLRTIY	LVDTTTEMYL	0.3645	968.8	50.00	Rv2711, TB
DRB1_0901	121	NPTTSPFGNP I PGLV	FGNP I PGLV	0.3626	988.5	50.00	Rv2711, TB
DRB1_0901	160	SPVAVVVRQLTEHVQ	SPVAVVVRQ	0.3570	1050.0	50.00	Rv2711, TB
DRB1_0901	170	TEHVQGDIDLITRLK	EHVQGDIDL	0.3567	1053.6	50.00	Rv2711, TB
DRB1_0901	89	IGLPWEEVHAEACRW	WEEVHAEAC	0.3567	1054.0	50.00	Rv2711, TB
DRB1_0901	145	ADDANLVRLTELPAG	NLVRLTELP	0.3554	1069.5	50.00	Rv2711, TB
DRB1_0901	137	LGVGPEPGADDANLV	LGVGPEPGA	0.3543	1081.8	50.00	Rv2711, TB
DRB1_0901	208	IPGHENVTLPHEMAH	IPGHENVTL	0.3538	1087.6	50.00	Rv2711, TB
DRB1_0901	115	LVKVLNNPTTSPFGN	VKVLNNPTT	0.3526	1102.2	50.00	Rv2711, TB
DRB1_0901	30	AERLDQSGPTVSQTV	LDQSGPTVS	0.3489	1146.9	50.00	Rv2711, TB
DRB1_0901	158	AGSPVAVVVRQLTEH	AGSPVAVVV	0.3471	1169.5	50.00	Rv2711, TB
DRB1_0901	134	LVELGVGPEPGADDA	LGVGPEPGA	0.3459	1185.3	50.00	Rv2711, TB
DRB1_0901	42	QTVSRMERDGLLRVA	QTVSRMERD	0.3450	1195.9	50.00	Rv2711, TB
DRB1_0901	162	VAVVVRQLTEHVQGD	VVRQLTEHV	0.3428	1225.0	50.00	Rv2711, TB
DRB1_0901	2	ELVDTTTEMYLRTIY	ELVDTTTEMY	0.3419	1236.8	50.00	Rv2711, TB
DRB1_0901	159	GSPVAVVVRQLTEHV	VAVVVRQLT	0.3404	1257.0	50.00	Rv2711, TB
DRB1_0901	116	VKVLNNPTTSPFGNP	VKVLNNPTT	0.3393	1272.3	50.00	Rv2711, TB
DRB1_0901	133	GLVELGVGPEPGADD	LGVGPEPGA	0.3392	1273.1	50.00	Rv2711, TB
DRB1_0901	60	HLELTEKGRALAIIV	EKGRALAIIV	0.3391	1274.7	50.00	Rv2711, TB
DRB1_0901	157	PAGSPVAVVVRQLTE	PAGSPVAVV	0.3375	1297.5	50.00	Rv2711, TB
DRB1_0901	44	VSRMERDGLLRVAGD	ERDGLLRVA	0.3374	1298.8	50.00	Rv2711, TB
DRB1_0901	87	DVIGLPWEEVHAEAC	VIGLPWEEV	0.3351	1332.1	50.00	Rv2711, TB
DRB1_0901	52	LLRVAGDRHLELTEK	LRVAGDRHL	0.3348	1335.2	50.00	Rv2711, TB
DRB1_0901	135	VELGVGPEPGADDAN	LGVGPEPGA	0.3348	1336.5	50.00	Rv2711, TB
DRB1_0901	136	ELGVGPEPGADDANL	LGVGPEPGA	0.3343	1343.4	50.00	Rv2711, TB
DRB1_0901	131	IPGLVELGVGPEPGA	LGVGPEPGA	0.3333	1357.8	50.00	Rv2711, TB
DRB1_0901	94	EEVHAEACRWEHVMS	EVHAEACRW	0.3318	1380.5	50.00	Rv2711, TB
DRB1_0901	130	PIPGLVELGVGPEPG	IPGLVELGV	0.3315	1383.9	50.00	Rv2711, TB
DRB1_0901	171	EHVQGDIDLITRLKD	EHVQGDIDL	0.3292	1419.9	50.00	Rv2711, TB
DRB1_0901	132	PGVELGVGPEPGAD	LGVGPEPGA	0.3249	1486.3	50.00	Rv2711, TB
DRB1_0901	15	YDLEEEGVTPLRARI	YDLEEEGVT	0.3246	1492.2	50.00	Rv2711, TB
DRB1_0901	118	VLNNPTTSPFGNP I P	LNNPTTSPF	0.3236	1508.7	50.00	Rv2711, TB
DRB1_0901	83	RLLDVIGLPWEEVH	VIGLPWEEV	0.3187	1589.3	50.00	Rv2711, TB
DRB1_0901	14	IYDLEEEGVTPLRAR	IYDLEEEGV	0.3184	1595.0	50.00	Rv2711, TB
DRB1_0901	205	TIVIPGHENVTLPHE	TIVIPGHEN	0.3182	1599.4	50.00	Rv2711, TB
DRB1_0901	82	ERLLVDVIGLPWEEV	LLVDVIGLP	0.3152	1651.2	50.00	Rv2711, TB
DRB1_0901	204	VTIVIPGHENVTLP	TIVIPGHEN	0.3147	1661.2	50.00	Rv2711, TB
DRB1_0901	95	EVHAEACRWEHVMS	EVHAEACRW	0.3136	1680.9	50.00	Rv2711, TB
DRB1_0901	144	GADDANLVRLTELPA	NLVRLTELP	0.3130	1691.4	50.00	Rv2711, TB
DRB1_0901	187	GVVFNARVTVETTPG	VVFNARVTV	0.3127	1696.2	50.00	Rv2711, TB
DRB1_0901	96	VHAEACRWEHVMS	RWEHVMS	0.3125	1699.9	50.00	Rv2711, TB
DRB1_0901	117	KVLNNPTTSPFGNP I	LNNPTTSPF	0.3123	1704.2	50.00	Rv2711, TB
DRB1_0901	53	LRVAGDRHLELTEK	LRVAGDRHL	0.3119	1710.7	50.00	Rv2711, TB
DRB1_0901	69	ALAIAMVRKHRLAER	MRKHRLAER	0.3104	1739.1	50.00	Rv2711, TB
DRB1_0901	43	TVSRMERDGLLRVAG	SRMERDGLL	0.3094	1757.8	50.00	Rv2711, TB
DRB1_0901	45	SRMERDGLLRVAGDR	ERDGLLRVA	0.3086	1772.8	50.00	Rv2711, TB
DRB1_0901	79	RLAERLLVDVIGLPW	RLAERLLVD	0.3083	1779.8	50.00	Rv2711, TB
DRB1_0901	206	IVIPGHENVTLPHEM	IVIPGHENV	0.3047	1849.1	50.00	Rv2711, TB
DRB1_0901	174	QGDIDLITRLKDAGV	ITRLKDAGV	0.2997	1951.9	50.00	Rv2711, TB
DRB1_0901	196	VETTPGGGVTIVIPG	VETTPGGGV	0.2996	1955.2	50.00	Rv2711, TB
DRB1_0901	59	RHLELTEKGRALAIIV	EKGRALAIIV	0.2989	1970.5	50.00	Rv2711, TB
DRB1_0901	86	VDIIGLPWEEVHAE	VIGLPWEEV	0.2967	2016.7	50.00	Rv2711, TB
DRB1_0901	46	RMERDGLLRVAGDRH	ERDGLLRVA	0.2941	2075.5	50.00	Rv2711, TB
DRB1_0901	203	GVTVIPGHENVTLP	VIPGHENV	0.2939	2079.3	50.00	Rv2711, TB
DRB1_0901	119	LNNPTTSPFGNP I P	LNNPTTSPF	0.2923	2114.6	50.00	Rv2711, TB
DRB1_0901	11	LRTIYDLEEEGVTPL	IYDLEEEGV	0.2911	2144.0	50.00	Rv2711, TB
DRB1_0901	84	LLVDVIGLPWEEVHA	VIGLPWEEV	0.2910	2145.7	50.00	Rv2711, TB
DRB1_0901	3	LVDTTTEMYLRTIYDL	LVDTTTEMYL	0.2869	2243.8	50.00	Rv2711, TB
DRB1_0901	29	IAERLDQSGPTVSQTV	LDQSGPTVS	0.2865	2251.8	50.00	Rv2711, TB
DRB1_0901	26	RARIAERLDQSGPTV	RARIAERLD	0.2822	2359.8	50.00	Rv2711, TB
DRB1_0901	202	GGVTIVIPGHENVTL	IVIPGHENV	0.2812	2384.6	50.00	Rv2711, TB
DRB1_0901	195	TVETTPGGGVTIVIP	VETTPGGGV	0.2806	2401.3	50.00	Rv2711, TB
DRB1_0901	80	LAERLLVDVIGLPWE	ERLLVDVIG	0.2775	2483.6	50.00	Rv2711, TB

DRB1_0901	12	RTIYDLEEEEGVTPLR	IYDLEEEGV	0.2768	2502.3	50.00	Rv2711, TB
DRB1_0901	201	GGGVTVIPGHENVT	VIPGHENVT	0.2752	2545.2	50.00	Rv2711, TB
DRB1_0901	85	LNDVIGLPWEEVHAE	VIGLPWEEV	0.2733	2599.0	50.00	Rv2711, TB
DRB1_0901	120	NNPTTSPFGNPPIGL	TTSPFGNPI	0.2722	2630.4	50.00	Rv2711, TB
DRB1_0901	188	VVPNARVTVETTPGG	VVPNARVTV	0.2611	2966.7	50.00	Rv2711, TB
DRB1_0901	13	TYDLEEEEGVTPLRA	YDLEEEGV	0.2598	3006.6	50.00	Rv2711, TB
DRB1_0901	194	VTVETTPGGGVTVI	ETTPGGGV	0.2586	3046.5	50.00	Rv2711, TB
DRB1_0901	200	PGGGVTIVIPGHENV	IVIPGHENV	0.2483	3404.4	50.00	Rv2711, TB
DRB1_0901	58	DRHLELTEKGRALAI	LTEKGRALA	0.2482	3410.8	50.00	Rv2711, TB
DRB1_0901	81	AERLLVDVIGLPWEE	ERLLVDVIG	0.2465	3474.0	50.00	Rv2711, TB
DRB1_0901	197	ETTPGGGVTVIPGH	ETTPGGGV	0.2431	3601.4	50.00	Rv2711, TB
DRB1_0901	192	ARVTVETTPGGGVTI	VETTPGGGV	0.2392	3758.5	50.00	Rv2711, TB
DRB1_0901	193	RVTVETTPGGGVTVI	VETTPGGGV	0.2391	3761.5	50.00	Rv2711, TB
DRB1_0901	28	RIAERLDQSGPTVSQ	RLDQSGPTV	0.2351	3930.4	50.00	Rv2711, TB
DRB1_0901	55	VAGDRHLELTEKGRA	AGDRHLELT	0.2325	4040.6	50.00	Rv2711, TB
DRB1_0901	191	NARVTVETTPGGGV	VETTPGGGV	0.2293	4184.6	50.00	Rv2711, TB
DRB1_0901	199	TPGGGVTVIPGHEN	PGGGVTIVI	0.2276	4262.2	50.00	Rv2711, TB
DRB1_0901	172	HVQGDIDLITRLKDA	HVQGDIDLI	0.2257	4348.9	50.00	Rv2711, TB
DRB1_0901	57	GDRHLELTEKGRALA	LTEKGRALA	0.2248	4390.0	50.00	Rv2711, TB
DRB1_0901	56	AGDRHLELTEKGRAL	LELTEKGRA	0.2247	4395.5	50.00	Rv2711, TB
DRB1_0901	189	VPNARVTVETTPGGG	VPNARVTV	0.2238	4440.5	50.00	Rv2711, TB
DRB1_0901	54	RVAGDRHLELTEKGR	AGDRHLELT	0.2195	4648.9	50.00	Rv2711, TB
DRB1_0901	27	ARIAERLDQSGPTVS	RLDQSGPTV	0.2156	4851.2	50.00	Rv2711, TB
DRB1_0901	198	TPGGGVTVIPGHE	PGGGVTIVI	0.2075	5296.6	50.00	Rv2711, TB
DRB1_0901	138	VGPEPEGADDANLVR	VGPEPEGADD	0.2069	5332.7	50.00	Rv2711, TB
DRB1_0901	139	VGPEPEGADDANLVRL	VGPEPEGADD	0.1981	5863.4	50.00	Rv2711, TB
DRB1_0901	143	PGADDANLVRLTELP	NLVRLTELP	0.1935	6160.4	50.00	Rv2711, TB
DRB1_0901	190	PNARVTVETTPGGGV	VETTPGGGV	0.1930	6197.3	50.00	Rv2711, TB
DRB1_0901	173	VQGDIDLITRLKDAQ	DIDLITRLK	0.1500	9865.2	50.00	Rv2711, TB
DRB1_0901	142	EPGADDANLVRLTEL	ANLVRLTEL	0.1313	12082.8	50.00	Rv2711, TB
DRB1_0901	140	GPEPEGADDANLVRLT	EPGADDANL	0.1101	15189.5	50.00	Rv2711, TB
DRB1_0901	141	PEPEGADDANLVRLTE	EPGADDANL	0.0910	18677.4	50.00	Rv2711, TB

Allele: DRB1\_0901. Number of high binders 3. Number of weak binders 66. Number of peptides 216

Allele	pos	peptide	core	l-log50k(aff)	affinity(nM)	Bind	Level	%Random	Identity
DRB1_1101	112	ERLVKVLNNPTTSP	LVKVLNNPT	0.8493	5.1	SB	0.10	Rv2711, TB	
DRB1_1101	113	RRLVKVLNNPTTSP	VKVLNNPTT	0.8435	5.4	SB	0.15	Rv2711, TB	
DRB1_1101	111	VERRLVKVLNNPTTS	LVKVLNNPT	0.8379	5.8	SB	0.15	Rv2711, TB	
DRB1_1101	110	DVERRLVKVLNNPTT	LVKVLNNPT	0.8037	8.4	SB	0.40	Rv2711, TB	
DRB1_1101	114	RLVKVLNNPTTSPFG	VKVLNNPTT	0.7985	8.8	SB	0.40	Rv2711, TB	
DRB1_1101	69	ALAIAVMRKHRLAER	IAVMRKHRL	0.7703	12.0	SB	0.80	Rv2711, TB	
DRB1_1101	70	LAIAVMRKHRLAERL	LAIAVMRKH	0.7693	12.1	SB	0.80	Rv2711, TB	
DRB1_1101	109	EDVERRLVKVLNNPT	RRLVKVLNN	0.7525	14.6	SB	1.00	Rv2711, TB	
DRB1_1101	68	RALAIAVMRKHRLAE	LAIAVMRKH	0.7392	16.8	SB	2.00	Rv2711, TB	
DRB1_1101	115	LVKVLNNPTTSPFGN	VKVLNNPTT	0.7075	23.7	SB	2.00	Rv2711, TB	
DRB1_1101	71	AIAVMRKHRLAERLL	IAVMRKHRL	0.6975	26.4	SB	4.00	Rv2711, TB	
DRB1_1101	67	GRALAIAVMRKHRLA	LAIAVMRKH	0.6891	28.9	SB	4.00	Rv2711, TB	
DRB1_1101	72	IAVMRKHRLAERLLV	IAVMRKHRL	0.6669	36.7	SB	4.00	Rv2711, TB	
DRB1_1101	108	SEVERRLVKVLNNP	RRLVKVLNN	0.6555	41.6	SB	4.00	Rv2711, TB	
DRB1_1101	66	KGRALAIAVMRKHRL	LAIAVMRKH	0.5978	77.6	WB	8.00	Rv2711, TB	
DRB1_1101	160	SPVAVVVRQLTEHVQ	VAVVVRQLT	0.5851	89.0	WB	8.00	Rv2711, TB	
DRB1_1101	107	MSEVERRLVKVLNN	RRLVKVLNN	0.5822	91.9	WB	8.00	Rv2711, TB	
DRB1_1101	73	AVMRKHRLAERLLVD	AVMRKHRLA	0.5813	92.8	WB	8.00	Rv2711, TB	
DRB1_1101	159	GSPVAVVVRQLTEHV	VAVVVRQLT	0.5789	95.2	WB	8.00	Rv2711, TB	
DRB1_1101	147	DANLVRLTELPAGSP	LVRLTELPA	0.5729	101.7	WB	8.00	Rv2711, TB	
DRB1_1101	161	PVAVVVRQLTEHVQ	VAVVVRQLT	0.5728	101.7	WB	8.00	Rv2711, TB	
DRB1_1101	148	ANLVRLTELPAGSPV	LVRLTELPA	0.5628	113.4	WB	16.00	Rv2711, TB	
DRB1_1101	162	VAVVVRQLTEHVQGD	VAVVVRQLT	0.5553	123.0	WB	16.00	Rv2711, TB	
DRB1_1101	74	VMRKHRLAERLLVDV	KHRLAERLL	0.5484	132.4	WB	16.00	Rv2711, TB	
DRB1_1101	19	EEGVTPLRARIAERL	VTPLRARIA	0.5453	136.9	WB	16.00	Rv2711, TB	
DRB1_1101	149	NLVRLTELPAGSPVA	LVRLTELPA	0.5393	146.2	WB	16.00	Rv2711, TB	
DRB1_1101	75	MRKHRLAERLLVDVI	HRLAERLLV	0.5251	170.5	WB	16.00	Rv2711, TB	
DRB1_1101	146	DDANLVRLTELPAGS	LVRLTELPA	0.5250	170.6	WB	16.00	Rv2711, TB	
DRB1_1101	20	EGVTPLRARIAERLD	VTPLRARIA	0.5203	179.5	WB	16.00	Rv2711, TB	
DRB1_1101	18	EEGVTPLRARIAER	VTPLRARIA	0.5094	202.0	WB	16.00	Rv2711, TB	
DRB1_1101	158	AGSPVAVVVRQLTEH	VAVVVRQLT	0.5088	203.3	WB	16.00	Rv2711, TB	
DRB1_1101	76	RKHRLAERLLVDVIG	HRLAERLLV	0.4875	255.9	WB	16.00	Rv2711, TB	
DRB1_1101	21	GVTPLRARIAERLDQ	VTPLRARIA	0.4693	311.8	WB	32.00	Rv2711, TB	
DRB1_1101	65	EKGRALAIAVMRKH	LAIAVMRKH	0.4668	320.2	WB	32.00	Rv2711, TB	
DRB1_1101	116	VKVLNNPTTSPFGNP	VKVLNNPTT	0.4640	330.2	WB	32.00	Rv2711, TB	
DRB1_1101	150	LVRLTELPAGSPVAV	LVRLTELPA	0.4632	333.0	WB	32.00	Rv2711, TB	
DRB1_1101	145	ADDANLVRLTELPAG	LVRLTELPA	0.4619	337.5	WB	32.00	Rv2711, TB	



DRB1_1101	77	KHRLAERLLVDVIGL	HRLAERLLV	0.4528	372.6	WB	32.00	Rv2711, TB
DRB1_1101	6	TTEMYLRTIYDLEEE	EMYLRTIYD	0.4444	408.2	WB	32.00	Rv2711, TB
DRB1_1101	17	LEEEGVTPPLRARIAE	VTPLRARIA	0.4431	413.9	WB	32.00	Rv2711, TB
DRB1_1101	5	DTEMYLRTIYDLEE	EMYLRTIYD	0.4394	430.6	WB	32.00	Rv2711, TB
DRB1_1101	60	HLELTEKGRALAIIV	LTEKGRALA	0.4296	478.9	WB	32.00	Rv2711, TB
DRB1_1101	7	TEMYLRTIYDLEEEG	EMYLRTIYD	0.4227	516.2		32.00	Rv2711, TB
DRB1_1101	174	QGDIDLITRLKDGAV	IDLITRLKDG	0.4155	557.8		32.00	Rv2711, TB
DRB1_1101	4	VDTEMYLRTIYDLE	EMYLRTIYD	0.4147	562.8		32.00	Rv2711, TB
DRB1_1101	175	GDIDLITRLKDGAVV	IDLITRLKDG	0.4123	577.6		32.00	Rv2711, TB
DRB1_1101	157	PAGSPVAVVVRQLTE	VAVVVRQLT	0.4122	578.4		32.00	Rv2711, TB
DRB1_1101	144	GADDANLVRLETPLA	LVRLETPLA	0.4067	613.5		32.00	Rv2711, TB
DRB1_1101	61	LELTEKGRALAIIVM	LTEKGRALA	0.4063	616.1		32.00	Rv2711, TB
DRB1_1101	59	RHLELTEKGRALAI	LTEKGRALA	0.3923	716.8		32.00	Rv2711, TB
DRB1_1101	106	VMSEDEVERRLVKVLN	ERRLVKVLN	0.3922	717.5		32.00	Rv2711, TB
DRB1_1101	62	ELTEKGRALAIIVMR	LTEKGRALA	0.3840	784.9		32.00	Rv2711, TB
DRB1_1101	49	DRGLLRVAGDRHLEL	LLRVAGDRH	0.3837	786.7		32.00	Rv2711, TB
DRB1_1101	8	EMYLRTIYDLEEEGV	EMYLRTIYD	0.3803	816.6		32.00	Rv2711, TB
DRB1_1101	16	DLEEEGVTPPLRARIA	VTPLRARIA	0.3789	828.7		32.00	Rv2711, TB
DRB1_1101	176	DIDLITRLKDGAVVP	IDLITRLKDG	0.3788	829.6		32.00	Rv2711, TB
DRB1_1101	63	LTEKGRALAIIVMRK	LTEKGRALA	0.3728	885.9		32.00	Rv2711, TB
DRB1_1101	51	GLLRVAGDRHLELTK	LLRVAGDRH	0.3644	969.6		32.00	Rv2711, TB
DRB1_1101	46	RMERDGLLRVAGDRH	RDGLLRVAG	0.3627	987.6		32.00	Rv2711, TB
DRB1_1101	173	VQGDIDLITRLKDGAV	IDLITRLKDG	0.3590	1027.9		32.00	Rv2711, TB
DRB1_1101	52	LLRVAGDRHLELTK	LLRVAGDRH	0.3576	1043.3		32.00	Rv2711, TB
DRB1_1101	48	ERDGLLRVAGDRHLE	RDGLLRVAG	0.3563	1058.0		32.00	Rv2711, TB
DRB1_1101	47	MERDGLLRVAGDRHL	RDGLLRVAG	0.3553	1069.5		32.00	Rv2711, TB
DRB1_1101	212	ENVTLPHEMAHAVKV	NVTLPHEMA	0.3544	1081.0		32.00	Rv2711, TB
DRB1_1101	38	PTVVSQTVSRMERDGL	SQTVSRMER	0.3536	1090.4		50.00	Rv2711, TB
DRB1_1101	50	DGLLRVAGDRHLELTK	LLRVAGDRH	0.3531	1095.3		50.00	Rv2711, TB
DRB1_1101	64	TEKGRALAIIVMRKH	LAIIVMRKH	0.3530	1096.8		50.00	Rv2711, TB
DRB1_1101	78	HRLAERLLVDVIGLPL	HRLAERLLV	0.3495	1140.0		50.00	Rv2711, TB
DRB1_1101	177	IDLITRLKDGAVVVPN	IDLITRLKDG	0.3491	1143.9		50.00	Rv2711, TB
DRB1_1101	58	DRHLELTEKGRALAI	LTEKGRALA	0.3459	1184.5		50.00	Rv2711, TB
DRB1_1101	213	NVTLPHEMAHAVKVE	VTLPHEMAH	0.3391	1275.2		50.00	Rv2711, TB
DRB1_1101	211	HENVTLPHEMAHAVK	NVTLPHEMA	0.3360	1319.1		50.00	Rv2711, TB
DRB1_1101	3	LVDTEMYLRTIYDLE	TEMYLRTIY	0.3352	1329.6		50.00	Rv2711, TB
DRB1_1101	39	TVSQTVSRMERDGLL	SQTVSRMER	0.3320	1377.5		50.00	Rv2711, TB
DRB1_1101	163	AVVVRQLTEHVQGDID	AVVVRQLTE	0.3275	1445.1		50.00	Rv2711, TB
DRB1_1101	210	GHENVTLPHEMAHAV	NVTLPHEMA	0.3209	1552.3		50.00	Rv2711, TB
DRB1_1101	40	VSQTVSRMERDGLLR	SQTVSRMER	0.3199	1569.7		50.00	Rv2711, TB
DRB1_1101	22	VTPLRARIAERLDQS	VTPLRARIA	0.3195	1576.2		50.00	Rv2711, TB
DRB1_1101	156	LPAGSPVAVVVRQLT	VAVVVRQLT	0.3182	1599.4		50.00	Rv2711, TB
DRB1_1101	37	GPTVVSQTVSRMERDG	SQTVSRMER	0.3099	1748.8		50.00	Rv2711, TB
DRB1_1101	45	SRMERDGLLRVAGDR	RDGLLRVAG	0.3029	1886.8		50.00	Rv2711, TB
DRB1_1101	172	HVQGDIDLITRLKDA	IDLITRLKDG	0.2958	2037.1		50.00	Rv2711, TB
DRB1_1101	100	ACRWEHVMSSEDEV	WEHVMSSEV	0.2927	2105.8		50.00	Rv2711, TB
DRB1_1101	185	DAGVVPNARVTVETT	VVPNARVTV	0.2926	2109.3		50.00	Rv2711, TB
DRB1_1101	57	GDRHLELTEKGRALA	LTEKGRALA	0.2892	2187.7		50.00	Rv2711, TB
DRB1_1101	99	EACRWEHVMSSEDEV	WEHVMSSEV	0.2806	2400.1		50.00	Rv2711, TB
DRB1_1101	186	AGVVPNARVTVETTP	VVPNARVTV	0.2793	2435.0		50.00	Rv2711, TB
DRB1_1101	2	ELVDTEMYLRTIYDLE	TEMYLRTIY	0.2704	2681.7		50.00	Rv2711, TB
DRB1_1101	184	KDAGVVPNARVTVETT	VVPNARVTV	0.2686	2733.9		50.00	Rv2711, TB
DRB1_1101	41	SQTVSRMERDGLLRV	SQTVSRMER	0.2650	2843.1		50.00	Rv2711, TB
DRB1_1101	36	SGPTVVSQTVSRMERD	SQTVSRMER	0.2627	2913.4		50.00	Rv2711, TB
DRB1_1101	209	PGHENVTLPHEMAHA	NVTLPHEMA	0.2626	2918.1		50.00	Rv2711, TB
DRB1_1101	214	VTLPHEMAHAVKVEK	VTLPHEMAH	0.2589	3037.1		50.00	Rv2711, TB
DRB1_1101	44	VSRMERDGLLRVAGD	RDGLLRVAG	0.2496	3356.5		50.00	Rv2711, TB
DRB1_1101	164	VVVRQLTEHVQGDID	VVRQLTEHV	0.2494	3365.0		50.00	Rv2711, TB
DRB1_1101	43	TVSRMERDGLLRVAG	RMERDGLLR	0.2489	3382.7		50.00	Rv2711, TB
DRB1_1101	98	AEACRWEHVMSSEDEV	ACRWEHVMS	0.2483	3404.2		50.00	Rv2711, TB
DRB1_1101	183	LKDAGVVPNARVTVE	AGVVPNARV	0.2404	3708.2		50.00	Rv2711, TB
DRB1_1101	151	VRLTELPAGSPVAVV	LTELPAGSP	0.2401	3721.1		50.00	Rv2711, TB
DRB1_1101	101	CRWEHVMSSEDEV	WEHVMSSEV	0.2388	3775.2		50.00	Rv2711, TB
DRB1_1101	83	RLLDVIGLPPWEEVH	LVDVIGLPP	0.2377	3820.4		50.00	Rv2711, TB
DRB1_1101	82	ERLLVDVIGLPPWEEV	LVDVIGLPP	0.2341	3973.1		50.00	Rv2711, TB
DRB1_1101	80	LAERLLVDVIGLPPWE	ERLLVDVIG	0.2329	4025.5		50.00	Rv2711, TB
DRB1_1101	105	HVMSSEDEVERRLVKVL	EDVERRLVK	0.2328	4026.7		50.00	Rv2711, TB
DRB1_1101	84	LLVDVIGLPPWEEVHA	LVDVIGLPP	0.2288	4204.4		50.00	Rv2711, TB
DRB1_1101	97	HAEACRWEHVMSSEDEV	ACRWEHVMS	0.2275	4265.0		50.00	Rv2711, TB
DRB1_1101	79	RLAERLLVDVIGLPP	ERLLVDVIG	0.2254	4361.3		50.00	Rv2711, TB
DRB1_1101	171	EHVQGDIDLITRLKDG	IDLITRLKDG	0.2253	4365.8		50.00	Rv2711, TB
DRB1_1101	215	TLPHEMAHAVKVEKV	HEMAHAVKV	0.2251	4378.5		50.00	Rv2711, TB
DRB1_1101	9	MYLRTIYDLEEEGV	YLRTIYDLE	0.2251	4378.9		50.00	Rv2711, TB
DRB1_1101	35	QSGPTVVSQTVSRMER	SQTVSRMER	0.2238	4441.8		50.00	Rv2711, TB
DRB1_1101	143	PGADDANLVRLETPL	DANLVRLET	0.2199	4632.1		50.00	Rv2711, TB
DRB1_1101	187	GVVPNARVTVETTPG	VVPNARVTV	0.2184	4705.8		50.00	Rv2711, TB
DRB1_1101	81	AERLLVDVIGLPPWEE	LVDVIGLPP	0.2163	4814.9		50.00	Rv2711, TB

DRB1_1101	53	LRVAGDRHLELLETEKG	VAGDRHLEL	0.2135	4961.1	50.00	Rv2711, TB
DRB1_1101	178	DLITRLKDGAVVPNA	LITRLKDGAG	0.2132	4979.8	50.00	Rv2711, TB
DRB1_1101	182	RLKDGAVVPNARVTV	AGVVPNARV	0.2132	4981.2	50.00	Rv2711, TB
DRB1_1101	85	LVDVIGLPWEEVHAE	LVDVIGLPW	0.2121	5041.3	50.00	Rv2711, TB
DRB1_1101	165	VVRQLTEHVQGDIDL	VVRQLTEHV	0.2091	5202.2	50.00	Rv2711, TB
DRB1_1101	208	IPGHENVTLPHEMAH	NVTLPHEMA	0.2048	5453.8	50.00	Rv2711, TB
DRB1_1101	15	YDLEEEGVTPPLRAR	GVTPLRARI	0.2034	5534.8	50.00	Rv2711, TB
DRB1_1101	102	RWEHVMSDEVERRLV	WEHVMSDEV	0.2031	5557.0	50.00	Rv2711, TB
DRB1_1101	179	LITRLKDGAVVPNAR	LITRLKDGAG	0.1954	6037.4	50.00	Rv2711, TB
DRB1_1101	42	QTVSRMERDGLLRVA	RMERDGLLR	0.1944	6100.9	50.00	Rv2711, TB
DRB1_1101	103	WEHVMSDEVERRLVK	WEHVMSDEV	0.1931	6187.8	50.00	Rv2711, TB
DRB1_1101	202	GGVTIVIPGHENVTL	VTIVIPGHE	0.1909	6339.1	50.00	Rv2711, TB
DRB1_1101	180	ITRLKDGAVVPNARV	ITRLKDGAGV	0.1868	6624.0	50.00	Rv2711, TB
DRB1_1101	10	YLRTIYDLEEEGVTP	YLRTIYDLE	0.1854	6729.9	50.00	Rv2711, TB
DRB1_1101	152	RLETELPAGSPVAVVV	LTELPAGSP	0.1848	6773.7	50.00	Rv2711, TB
DRB1_1101	203	GVTIVIPGHENVTL	VTIVIPGHE	0.1847	6779.1	50.00	Rv2711, TB
DRB1_1101	95	EVHAEACRWEHVMS	EVHAEACRW	0.1840	6828.4	50.00	Rv2711, TB
DRB1_1101	188	VVPNARVTVETTPGG	VVPNARVTV	0.1818	6994.1	50.00	Rv2711, TB
DRB1_1101	201	GGVTIVIPGHENVT	VTIVIPGHE	0.1799	7136.6	50.00	Rv2711, TB
DRB1_1101	129	NPIPGLVELGVGPEP	IPGLVELGV	0.1741	7598.9	50.00	Rv2711, TB
DRB1_1101	181	TRLKDGAVVPNARV	LKDGAVVPN	0.1727	7718.7	50.00	Rv2711, TB
DRB1_1101	128	GNPIPGLVELGVGPE	IPGLVELGV	0.1712	7843.8	50.00	Rv2711, TB
DRB1_1101	24	PLRARIAERLDQSGP	RARIAERLD	0.1690	8030.6	50.00	Rv2711, TB
DRB1_1101	56	AGDRHLELLETEKGR	RHLELLETEK	0.1674	8168.6	50.00	Rv2711, TB
DRB1_1101	130	PIPGLVELGVGPEP	IPGLVELGV	0.1671	8196.9	50.00	Rv2711, TB
DRB1_1101	142	EPGADDANLVRRLTE	DANLVRRLTE	0.1651	8379.5	50.00	Rv2711, TB
DRB1_1101	127	FGNPIPGLVELGVGP	IPGLVELGV	0.1646	8427.1	50.00	Rv2711, TB
DRB1_1101	54	RVAGDRHLELLETEKGR	VAGDRHLEL	0.1645	8431.2	50.00	Rv2711, TB
DRB1_1101	23	TPLRARIAERLDQSG	RARIAERLD	0.1633	8547.3	50.00	Rv2711, TB
DRB1_1101	96	VHAEACRWEHVMS	ACRWEHVMS	0.1625	8616.3	50.00	Rv2711, TB
DRB1_1101	94	EEVHAEACRWEHVMS	EVHAEACRW	0.1624	8628.0	50.00	Rv2711, TB
DRB1_1101	204	VTIVIPGHENVTLPH	TIVIPGHEN	0.1596	8891.6	50.00	Rv2711, TB
DRB1_1101	104	EHVMSDEVERRLVKV	SEDEVERRLV	0.1561	9231.3	50.00	Rv2711, TB
DRB1_1101	1	NELVDTTEMYLRTIY	TEMYLRTIY	0.1536	9487.3	50.00	Rv2711, TB
DRB1_1101	25	LRARIAERLDQSGPT	ARIAERLDQ	0.1523	9619.7	50.00	Rv2711, TB
DRB1_1101	55	VAGDRHLELLETEKGRA	RHLELLETEK	0.1508	9776.7	50.00	Rv2711, TB
DRB1_1101	126	PFGNPIPGLVELGVG	IPGLVELGV	0.1503	9838.3	50.00	Rv2711, TB
DRB1_1101	200	PGGGVTIVIPGHENV	VTIVIPGHE	0.1481	10066.1	50.00	Rv2711, TB
DRB1_1101	131	IPGLVELGVGPEPGA	IPGLVELGV	0.1460	10298.5	50.00	Rv2711, TB
DRB1_1101	166	VRQLTEHVQGDIDL	RQLTEHVQG	0.1450	10416.1	50.00	Rv2711, TB
DRB1_1101	207	VIPGHENVTLPHEMA	NVTLPHEMA	0.1425	10694.5	50.00	Rv2711, TB
DRB1_1101	86	VDVIGLPWEEVHAE	VIGLPWEEV	0.1375	11299.5	50.00	Rv2711, TB
DRB1_1101	125	SPFGNPIPGLVELGV	IPGLVELGV	0.1361	11469.1	50.00	Rv2711, TB
DRB1_1101	124	TSPFGNPIPGLVELG	TSPFGNPIP	0.1360	11477.1	50.00	Rv2711, TB
DRB1_1101	190	PNARVTVETTPGGGV	RVTVETTPG	0.1360	11482.6	50.00	Rv2711, TB
DRB1_1101	191	NARVTVETTPGGGVT	RVTVETTPG	0.1346	11654.5	50.00	Rv2711, TB
DRB1_1101	205	TIVIPGHENVTLPHE	TIVIPGHEN	0.1333	11817.7	50.00	Rv2711, TB
DRB1_1101	34	DQSGPTVSQTVSRME	VSQTVSRME	0.1311	12101.7	50.00	Rv2711, TB
DRB1_1101	133	GLVELGVGPEPGADD	VELGVGPEP	0.1288	12413.1	50.00	Rv2711, TB
DRB1_1101	153	LTELPAGSPVAVVVV	LTELPAGSP	0.1287	12425.7	50.00	Rv2711, TB
DRB1_1101	26	RARIAERLDQSGPTV	ARIAERLDQ	0.1283	12477.3	50.00	Rv2711, TB
DRB1_1101	123	TTSFPGNPIPGLVEL	TSPFGNPIP	0.1241	13055.5	50.00	Rv2711, TB
DRB1_1101	93	WEVHAEACRWEHVMS	EVHAEACRW	0.1231	13200.7	50.00	Rv2711, TB
DRB1_1101	132	PGLVELGVGPEPGAD	VELGVGPEP	0.1221	13348.1	50.00	Rv2711, TB
DRB1_1101	189	VPNARVTVETTPGGG	NARVTVETT	0.1212	13475.3	50.00	Rv2711, TB
DRB1_1101	0	MNELVDTTEMYLRTI	LVDTTEMYL	0.1209	13510.8	50.00	Rv2711, TB
DRB1_1101	192	ARVTVETTPGGGVTI	RVTVETTPG	0.1201	13635.9	50.00	Rv2711, TB
DRB1_1101	199	TPGGGVTIVIPGHEN	VTIVIPGHE	0.1163	14202.9	50.00	Rv2711, TB
DRB1_1101	134	LVELGVGPEPGADDA	VELGVGPEP	0.1135	14641.6	50.00	Rv2711, TB
DRB1_1101	92	PWEEVHAEACRWEHV	EVHAEACRW	0.1122	14857.6	50.00	Rv2711, TB
DRB1_1101	122	PTSPFGNPIPGLVE	TSPFGNPIP	0.1112	15019.4	50.00	Rv2711, TB
DRB1_1101	117	KVLNNPTTSPFGNPI	KVLNNPTTS	0.1060	15889.5	50.00	Rv2711, TB
DRB1_1101	141	PEPGADDANLVRRLTE	DANLVRRLTE	0.1045	16146.5	50.00	Rv2711, TB
DRB1_1101	167	RQLTEHVQGDIDLIT	RQLTEHVQG	0.1039	16238.6	50.00	Rv2711, TB
DRB1_1101	121	NPTTSPFGNPIPGLV	TSPFGNPIP	0.1027	16464.6	50.00	Rv2711, TB
DRB1_1101	87	DVIGLPWEEVHAEAC	VIGLPWEEV	0.1012	16735.6	50.00	Rv2711, TB
DRB1_1101	27	ARIAERLDQSGPTVS	ARIAERLDQ	0.0969	17515.2	50.00	Rv2711, TB
DRB1_1101	14	IYDLEEEGVTPPLRAR	IYDLEEEGV	0.0965	17601.0	50.00	Rv2711, TB
DRB1_1101	135	VELGVGPEPGADDAN	VELGVGPEP	0.0942	18039.9	50.00	Rv2711, TB
DRB1_1101	170	TEHVQGDIDLITRLK	VQGDIDLIT	0.0926	18366.6	50.00	Rv2711, TB
DRB1_1101	193	RVTVETTPGGGVTIV	RVTVETTPG	0.0901	18863.6	50.00	Rv2711, TB
DRB1_1101	91	LPWEEVHAEACRWEH	EVHAEACRW	0.0882	19253.4	50.00	Rv2711, TB
DRB1_1101	155	ELPAGSPVAVVVVRL	LPAGSPVAV	0.0838	20189.5	50.00	Rv2711, TB
DRB1_1101	206	IVIPGHENVTLPHEM	GHENVTLPH	0.0834	20290.2	50.00	Rv2711, TB
DRB1_1101	169	LTEHVQGDIDLITRL	HVQGDIDL	0.0772	21688.7	50.00	Rv2711, TB
DRB1_1101	88	VIGLPWEEVHAEACR	VIGLPWEEV	0.0755	22100.1	50.00	Rv2711, TB
DRB1_1101	11	LRTIYDLEEEGVTP	TIYDLEEEG	0.0740	22459.3	50.00	Rv2711, TB

DRB1_1101	13	TIYDLEEEGVTPPLRA	IYDLEEEGV	0.0727	22775.7	50.00	Rv2711, TB
DRB1_1101	33	LDQSGPTVSQTVSRM	PTVSQTVSR	0.0710	23182.5	50.00	Rv2711, TB
DRB1_1101	90	GLPWEEVHAEACRWE	EVHAEACRW	0.0695	23578.1	50.00	Rv2711, TB
DRB1_1101	28	RIAERLDQSGPTVSQ	IAERLDQSG	0.0680	23954.6	50.00	Rv2711, TB
DRB1_1101	12	RTIYDLEEEGVTPPLR	YDLEEEGV	0.0680	23955.9	50.00	Rv2711, TB
DRB1_1101	29	IAERLDQSGPTVSQT	RLDQSGPTV	0.0667	24303.6	50.00	Rv2711, TB
DRB1_1101	118	VLNNPTTSPFGNPIP	VLNNPTTSP	0.0663	24393.2	50.00	Rv2711, TB
DRB1_1101	168	QLTEHVQDIDLITR	HVQGDIDL	0.0662	24436.0	50.00	Rv2711, TB
DRB1_1101	120	NNPTTSPFGNPIPGL	TSPFGNPIP	0.0641	24976.7	50.00	Rv2711, TB
DRB1_1101	198	TPGGGVTIVIPGHE	VTIVIPGHE	0.0628	25330.8	50.00	Rv2711, TB
DRB1_1101	32	RLDQSGPTVSQTVSR	RLDQSGPTV	0.0597	26206.2	50.00	Rv2711, TB
DRB1_1101	89	IGLPWEEVHAEACRW	EVHAEACRW	0.0596	26244.5	50.00	Rv2711, TB
DRB1_1101	136	ELGVGPEPGADDANL	LGVGPEPGA	0.0584	26593.2	50.00	Rv2711, TB
DRB1_1101	30	AERLDQSGPTVSQTV	RLDQSGPTV	0.0522	28436.2	50.00	Rv2711, TB
DRB1_1101	119	LNNPTTSPFGNPIPG	TSPFGNPIP	0.0496	29244.0	50.00	Rv2711, TB
DRB1_1101	154	TELPAGSPVAVVVRQ	LPAGSPVAV	0.0462	30332.7	50.00	Rv2711, TB
DRB1_1101	194	VTVETTPGGGVTIVI	VTVETTPGG	0.0448	30784.3	50.00	Rv2711, TB
DRB1_1101	137	LGVGPEPGADDANLV	LGVGPEPGA	0.0438	31139.1	50.00	Rv2711, TB
DRB1_1101	31	ERLDQSGPTVSQTVS	LDQSGPTVS	0.0397	32525.8	50.00	Rv2711, TB
DRB1_1101	140	GPEPGADDANLVRLT	DDANLVRLT	0.0370	33491.8	50.00	Rv2711, TB
DRB1_1101	197	ETTPGGGVTIVIPGH	GGVTIVIPG	0.0344	34469.0	50.00	Rv2711, TB
DRB1_1101	195	TVETTPGGGVTIVIP	TPGGGVTI	0.0320	35352.1	50.00	Rv2711, TB
DRB1_1101	196	VETTPGGGVTIVIPG	GGVTIVIPG	0.0263	37601.8	50.00	Rv2711, TB
DRB1_1101	139	VGPEPGADDANLVRL	VGPEPGADD	0.0115	44133.9	50.00	Rv2711, TB
DRB1_1101	138	GVGPEPGADDANLVR	VGPEPGADD	0.0089	45404.3	50.00	Rv2711, TB

Allele: DRB1\_1101. Number of high binders 14. Number of weak binders 28. Number of peptides 216

Allele	pos	peptide	core	1-log50k(aff)	affinity(nM)	Bind Level	%Random	Identity
DRB1_1302	66	KGRALAIAMVRKHRL	IAMVRKHRL	0.6850	30.2	SB	2.00	Rv2711, TB
DRB1_1302	67	GRALAIAMVRKHRLA	IAMVRKHRL	0.6598	39.7	SB	4.00	Rv2711, TB
DRB1_1302	182	RLKDAGVVPNARVTV	AGVVPNARV	0.6471	45.5	SB	4.00	Rv2711, TB
DRB1_1302	183	LKDAGVVPNARVTVE	AGVVPNARV	0.6209	60.4	WB	4.00	Rv2711, TB
DRB1_1302	110	DVERRLVKVLNNPTT	LVKVLNNPT	0.6135	65.5	WB	4.00	Rv2711, TB
DRB1_1302	111	VERRLVKVLNNPTTS	LVKVLNNPT	0.6042	72.4	WB	8.00	Rv2711, TB
DRB1_1302	113	RRLVKVLNNPTTSPF	LVKVLNNPT	0.6019	74.3	WB	8.00	Rv2711, TB
DRB1_1302	184	KDAGVVPNARVTVET	AGVVPNARV	0.6008	75.2	WB	8.00	Rv2711, TB
DRB1_1302	68	RALAIAMVRKHRLAE	IAMVRKHRL	0.6004	75.5	WB	8.00	Rv2711, TB
DRB1_1302	112	ERRLVKVLNNPTTSP	LVKVLNNPT	0.5987	76.9	WB	8.00	Rv2711, TB
DRB1_1302	69	ALAIAMVRKHRLAER	IAMVRKHRL	0.5883	86.0	WB	8.00	Rv2711, TB
DRB1_1302	109	EDVERRLVKVLNNPT	LVKVLNNPT	0.5871	87.2	WB	8.00	Rv2711, TB
DRB1_1302	185	DAGVVPNARVTVETT	AGVVPNARV	0.5845	89.6	WB	8.00	Rv2711, TB
DRB1_1302	70	LAIAMVRKHRLAERL	IAMVRKHRL	0.5835	90.6	WB	8.00	Rv2711, TB
DRB1_1302	186	AGVVPNARVTVETTP	AGVVPNARV	0.5725	102.1	WB	8.00	Rv2711, TB
DRB1_1302	71	AIAMVRKHRLAERLL	IAMVRKHRL	0.5713	103.4	WB	8.00	Rv2711, TB
DRB1_1302	72	IAAMVRKHRLAERLLV	IAMVRKHRL	0.5592	117.9	WB	8.00	Rv2711, TB
DRB1_1302	62	ELTEKGRALAIAMVR	KGRALAIAM	0.5566	121.2	WB	8.00	Rv2711, TB
DRB1_1302	181	TRTKDAGVVPNARVT	AGVVPNARV	0.5510	128.7	WB	8.00	Rv2711, TB
DRB1_1302	61	LELTEKGRALAIAMV	KGRALAIAM	0.5469	134.7	WB	8.00	Rv2711, TB
DRB1_1302	64	TEKGRALAIAMVRKH	KGRALAIAM	0.5464	135.3	WB	8.00	Rv2711, TB
DRB1_1302	63	ITEKGRALAIAMVRK	KGRALAIAM	0.5407	144.0	WB	8.00	Rv2711, TB
DRB1_1302	180	ITRLKDAGVVPNARV	AGVVPNARV	0.5377	148.7	WB	8.00	Rv2711, TB
DRB1_1302	114	RLVKVLNNPTTSPFG	LVKVLNNPT	0.5277	165.7	WB	16.00	Rv2711, TB
DRB1_1302	160	SPVAVVVRQLTEHVQ	VVRQLTEHV	0.5244	171.7	WB	16.00	Rv2711, TB
DRB1_1302	159	GSPVAVVVRQLTEHV	VVRQLTEHV	0.5231	174.2	WB	16.00	Rv2711, TB
DRB1_1302	215	TLPHEMAHAVKVEKV	LPHEMAHAV	0.5166	186.8	WB	16.00	Rv2711, TB
DRB1_1302	65	EKGRALAIAMVRKHR	KGRALAIAM	0.5110	198.4	WB	16.00	Rv2711, TB
DRB1_1302	161	PVAVVVRQLTEHVQG	VVRQLTEHV	0.5034	215.6	WB	16.00	Rv2711, TB
DRB1_1302	115	LVKVLNNPTTSPFGN	LVKVLNNPT	0.5001	223.3	WB	16.00	Rv2711, TB
DRB1_1302	214	VTLPHEMAHAVKVEK	LPHEMAHAV	0.4926	242.2	WB	16.00	Rv2711, TB
DRB1_1302	60	HLELTEKGRALAIAM	KGRALAIAM	0.4824	270.6	WB	16.00	Rv2711, TB
DRB1_1302	162	VAVVVRQLTEHVQGD	VVRQLTEHV	0.4753	292.1	WB	16.00	Rv2711, TB
DRB1_1302	213	NVTLPHEMAHAVKVE	LPHEMAHAV	0.4750	293.1	WB	16.00	Rv2711, TB
DRB1_1302	212	ENVTLPHEMAHAVKV	LPHEMAHAV	0.4727	300.4	WB	16.00	Rv2711, TB
DRB1_1302	210	GHENVTLPHEMAHAV	LPHEMAHAV	0.4527	372.9	WB	16.00	Rv2711, TB
DRB1_1302	211	HENVTLPHEMAHAVK	LPHEMAHAV	0.4425	416.6	WB	32.00	Rv2711, TB
DRB1_1302	163	AVVVRQLTEHVQGDI	VVRQLTEHV	0.4401	427.4	WB	32.00	Rv2711, TB
DRB1_1302	79	RLAERLLVDVIGLPW	RLLDVDVIGL	0.4208	526.9	WB	32.00	Rv2711, TB
DRB1_1302	80	LAERLLVDVIGLPWE	RLLDVDVIGL	0.4183	541.2	WB	32.00	Rv2711, TB
DRB1_1302	150	LVRLTELPAGSPVAV	LPAGSPVAV	0.4166	551.3	WB	32.00	Rv2711, TB
DRB1_1302	187	GVVPNARVTVETTPG	VVPNARVTV	0.4157	556.9	WB	32.00	Rv2711, TB
DRB1_1302	152	RLTELPAGSPVAVVV	LPAGSPVAV	0.4111	584.8	WB	32.00	Rv2711, TB
DRB1_1302	151	VRLTELPAGSPVAVV	LPAGSPVAV	0.4109	586.4	WB	32.00	Rv2711, TB

DRB1_1302	153	LTELPAGSPVAVVVR	LPAGSPVAV	0.4001	659.2	32.00	Rv2711, TB
DRB1_1302	81	AERLLVDVIGLPWEE	RLLDVIGL	0.3986	670.0	32.00	Rv2711, TB
DRB1_1302	155	ELPAGSPVAVVVRQL	LPAGSPVAV	0.3957	691.4	32.00	Rv2711, TB
DRB1_1302	156	LPAGSPVAVVVRQLT	LPAGSPVAV	0.3932	709.9	32.00	Rv2711, TB
DRB1_1302	165	VVRQLTEHVQGDIDL	VVRQLTEHV	0.3869	759.9	32.00	Rv2711, TB
DRB1_1302	164	VVRQLTEHVQGDIDQ	VVRQLTEHV	0.3839	785.6	32.00	Rv2711, TB
DRB1_1302	154	TELPAGSPVAVVVRQ	LPAGSPVAV	0.3837	786.6	32.00	Rv2711, TB
DRB1_1302	116	VKVLNNPTTSPFGNP	VKVLNNPTT	0.3830	792.6	32.00	Rv2711, TB
DRB1_1302	82	ERLLVDVIGLPWEEV	RLLDVIGL	0.3752	862.9	32.00	Rv2711, TB
DRB1_1302	59	RHLELTEKGRALAI	TEKGRALAI	0.3704	908.5	32.00	Rv2711, TB
DRB1_1302	58	DRHLELTEKGRALAI	TEKGRALAI	0.3688	924.4	32.00	Rv2711, TB
DRB1_1302	47	MERDGLLRVAGDRHL	LRVAGDRHL	0.3587	1031.2	32.00	Rv2711, TB
DRB1_1302	83	RLLDVIGLPWEEVH	RLLDVIGL	0.3515	1115.5	32.00	Rv2711, TB
DRB1_1302	177	IDLITRLKDAGVVPN	ITRLKDAGV	0.3449	1198.1	32.00	Rv2711, TB
DRB1_1302	175	GDIDLITRLKDAGVV	ITRLKDAGV	0.3407	1253.4	32.00	Rv2711, TB
DRB1_1302	178	DLITRLKDAGVVPNA	ITRLKDAGV	0.3392	1273.2	32.00	Rv2711, TB
DRB1_1302	179	LITRLKDAGVVPNAR	ITRLKDAGV	0.3338	1350.6	32.00	Rv2711, TB
DRB1_1302	188	VVPNARVTVETTPGG	VVPNARVTV	0.3324	1371.3	32.00	Rv2711, TB
DRB1_1302	78	HLAERLLVDVIGLP	RLLDVIGL	0.3273	1448.3	50.00	Rv2711, TB
DRB1_1302	34	DQSGPTVSQTVSRM	TVSQTVSRM	0.3266	1459.4	50.00	Rv2711, TB
DRB1_1302	33	LDQSGPTVSQTVSRM	TVSQTVSRM	0.3250	1484.7	50.00	Rv2711, TB
DRB1_1302	35	QSGPTVSQTVSRMER	TVSQTVSRM	0.3220	1533.6	50.00	Rv2711, TB
DRB1_1302	176	DIDLITRLKDAGVVP	ITRLKDAGV	0.3148	1659.4	50.00	Rv2711, TB
DRB1_1302	73	AVMRKHLAERLLVD	RKHLAERL	0.3133	1686.0	50.00	Rv2711, TB
DRB1_1302	77	KHLAERLLVDVIGL	RLLDVIGL	0.3114	1721.0	50.00	Rv2711, TB
DRB1_1302	48	ERDGLLRVAGDRHLE	LLRVAGDRH	0.3084	1777.5	50.00	Rv2711, TB
DRB1_1302	117	KVLNNPTTSPFGNPI	LNNPTTSPF	0.3051	1841.8	50.00	Rv2711, TB
DRB1_1302	1	NELVDTTTEMYLRTIY	LVDTTTEMYL	0.3032	1879.4	50.00	Rv2711, TB
DRB1_1302	174	QGDIIDLITRLKDAGV	ITRLKDAGV	0.3019	1907.4	50.00	Rv2711, TB
DRB1_1302	36	SGPTVSQTVSRMERD	TVSQTVSRM	0.2981	1986.7	50.00	Rv2711, TB
DRB1_1302	74	VMRKHLAERLLVDV	RKHLAERL	0.2979	1991.7	50.00	Rv2711, TB
DRB1_1302	41	SQTVSRMERDGLLRV	MERDGLLRV	0.2951	2053.2	50.00	Rv2711, TB
DRB1_1302	49	RDGLLRVAGDRHLEL	LLRVAGDRH	0.2949	2056.4	50.00	Rv2711, TB
DRB1_1302	158	AGSPVAVVVRQLTEH	AVVVRQLTE	0.2911	2143.1	50.00	Rv2711, TB
DRB1_1302	0	MNELVDTTTEMYLRTI	LVDTTTEMYL	0.2868	2244.7	50.00	Rv2711, TB
DRB1_1302	75	MRKHLAERLLVDVI	RKHLAERL	0.2861	2263.5	50.00	Rv2711, TB
DRB1_1302	19	EEGVTPLRARIAERL	LRARIAERL	0.2834	2329.7	50.00	Rv2711, TB
DRB1_1302	42	QTVSRMERDGLLRVA	MERDGLLRV	0.2811	2388.7	50.00	Rv2711, TB
DRB1_1302	16	DLEEEGVTPLRARIA	GVTPLRARI	0.2810	2391.8	50.00	Rv2711, TB
DRB1_1302	2	ELVDTTTEMYLRTIYD	LVDTTTEMYL	0.2781	2466.0	50.00	Rv2711, TB
DRB1_1302	15	YDLEEEGVTPLRARI	GVTPLRARI	0.2775	2482.1	50.00	Rv2711, TB
DRB1_1302	37	GPTVSQTVSRMERDG	TVSQTVSRM	0.2753	2542.2	50.00	Rv2711, TB
DRB1_1302	46	RMERDGLLRVAGDRH	LLRVAGDRH	0.2749	2555.3	50.00	Rv2711, TB
DRB1_1302	193	RVTVETTPGGGVTTI	VETTPGGGV	0.2724	2622.9	50.00	Rv2711, TB
DRB1_1302	202	GGVTIVIPGHENVT	VIPGHENVT	0.2708	2668.9	50.00	Rv2711, TB
DRB1_1302	50	DGLLRVAGDRHLELT	LLRVAGDRH	0.2705	2678.4	50.00	Rv2711, TB
DRB1_1302	194	VTVETTPGGGVTTI	VETTPGGGV	0.2690	2723.2	50.00	Rv2711, TB
DRB1_1302	76	RKHLAERLLVDVIG	RKHLAERL	0.2650	2842.4	50.00	Rv2711, TB
DRB1_1302	192	ARVTVETTPGGGVTTI	TTPGGGVTTI	0.2643	2864.7	50.00	Rv2711, TB
DRB1_1302	39	TVSQTVSRMERDGLL	TVSQTVSRM	0.2622	2930.6	50.00	Rv2711, TB
DRB1_1302	43	TVSRMERDGLLRVAG	MERDGLLRV	0.2604	2987.3	50.00	Rv2711, TB
DRB1_1302	89	IGLPWEEVHAEACRW	EVHAEACRW	0.2586	3046.8	50.00	Rv2711, TB
DRB1_1302	157	PAGSPVAVVVRQLTE	VAVVVRQLT	0.2580	3067.0	50.00	Rv2711, TB
DRB1_1302	201	GGGVTIVIPGHENVT	VIPGHENVT	0.2573	3090.7	50.00	Rv2711, TB
DRB1_1302	3	LVDTTTEMYLRTIYDL	LVDTTTEMYL	0.2572	3094.6	50.00	Rv2711, TB
DRB1_1302	17	LEEEGVTPLRARIAE	GVTPLRARI	0.2570	3101.2	50.00	Rv2711, TB
DRB1_1302	97	HAEACRWEHVMSEDV	WEHVMSEDV	0.2569	3102.9	50.00	Rv2711, TB
DRB1_1302	98	AEACRWEHVMSEDVE	WEHVMSEDV	0.2561	3129.2	50.00	Rv2711, TB
DRB1_1302	195	TVETTPGGGVTTI	TTPGGGVTTI	0.2560	3133.1	50.00	Rv2711, TB
DRB1_1302	51	GLLRVAGDRHLELTE	LLRVAGDRH	0.2560	3134.3	50.00	Rv2711, TB
DRB1_1302	108	SEDVERRLVKVLNNP	RRLVKVLNN	0.2545	3183.3	50.00	Rv2711, TB
DRB1_1302	90	GLPWEEVHAEACRWE	EVHAEACRW	0.2533	3227.4	50.00	Rv2711, TB
DRB1_1302	20	EGVTPLRARIAERLD	GVTPLRARI	0.2522	3264.5	50.00	Rv2711, TB
DRB1_1302	196	VETTPGGGVTTI	VETTPGGGV	0.2518	3280.4	50.00	Rv2711, TB
DRB1_1302	204	VTVIPGHENVTLP	VIPGHENVT	0.2508	3314.1	50.00	Rv2711, TB
DRB1_1302	100	ACRWEHVMSEDVERR	WEHVMSEDV	0.2499	3347.4	50.00	Rv2711, TB
DRB1_1302	203	GVTIVIPGHENVTLP	VIPGHENVT	0.2494	3366.7	50.00	Rv2711, TB
DRB1_1302	99	EAACRWEHVMSEDVER	WEHVMSEDV	0.2493	3369.8	50.00	Rv2711, TB
DRB1_1302	101	CRWEHVMSEDVERRL	WEHVMSEDV	0.2493	3370.7	50.00	Rv2711, TB
DRB1_1302	91	LPWEEVHAEACRWEH	EVHAEACRW	0.2462	3483.7	50.00	Rv2711, TB
DRB1_1302	38	PTVSQTVSRMERDGL	TVSQTVSRM	0.2455	3508.9	50.00	Rv2711, TB
DRB1_1302	102	RWEHVMSEDVERRLV	WEHVMSEDV	0.2411	3681.9	50.00	Rv2711, TB
DRB1_1302	92	PWEEVHAEACRWEH	EVHAEACRW	0.2402	3718.5	50.00	Rv2711, TB
DRB1_1302	44	VSRMERDGLLRVAGD	MERDGLLRV	0.2401	3720.0	50.00	Rv2711, TB
DRB1_1302	18	EEEGVTPLRARIAER	GVTPLRARI	0.2391	3760.4	50.00	Rv2711, TB
DRB1_1302	118	VLNNPTTSPFGNPIP	LNNPTTSPF	0.2368	3855.5	50.00	Rv2711, TB
DRB1_1302	52	LLRVAGDRHLELTEK	LLRVAGDRH	0.2354	3916.6	50.00	Rv2711, TB

DRB1_1302	93	WEEVHAEACRWEHV	EVHAEACRW	0.2353	3921.4	50.00	Rv2711, TB
DRB1_1302	84	LLVDVIGLPWEEVHA	LVDVIGLPW	0.2335	3997.8	50.00	Rv2711, TB
DRB1_1302	107	MSEDVERRLVKVLNN	RRLVKVLNN	0.2321	4056.8	50.00	Rv2711, TB
DRB1_1302	21	GVTPLRARIAERLDQ	GVTPLRARI	0.2266	4309.1	50.00	Rv2711, TB
DRB1_1302	103	WEHVMSERVEDVRLVK	WEHVMSEDV	0.2259	4340.8	50.00	Rv2711, TB
DRB1_1302	57	GDRHLELTEKGRALA	ELTEKGRAL	0.2211	4569.6	50.00	Rv2711, TB
DRB1_1302	45	SRMERDGLLRVAGDR	MERDGLLRV	0.2201	4623.2	50.00	Rv2711, TB
DRB1_1302	205	TIVIPGHENVTLPHE	VIPGHENVT	0.2194	4657.3	50.00	Rv2711, TB
DRB1_1302	169	LTEHVQGDIDLITRL	GDIDLITRL	0.2128	4999.9	50.00	Rv2711, TB
DRB1_1302	145	ADDANLVRLTELPAG	ANLVRLTEL	0.2126	5013.1	50.00	Rv2711, TB
DRB1_1302	200	PGGGVTIVIPGHENV	IVIPGHENV	0.2125	5018.8	50.00	Rv2711, TB
DRB1_1302	198	TPGGGVTIVIPGHE	TPGGGVTI	0.2104	5135.0	50.00	Rv2711, TB
DRB1_1302	206	IVIPGHENVTLPHEM	VIPGHENVT	0.2096	5179.4	50.00	Rv2711, TB
DRB1_1302	170	TEHVQGDIDLITRLK	GDIDLITRL	0.2061	5374.4	50.00	Rv2711, TB
DRB1_1302	31	ERLDQSGPTVSQTVS	RLDQSGPTV	0.2047	5460.3	50.00	Rv2711, TB
DRB1_1302	144	GADDANLVRLTELPA	ANLVRLTEL	0.2011	5678.1	50.00	Rv2711, TB
DRB1_1302	85	LVDVIGLPWEEVHAE	LVDVIGLPW	0.2008	5696.7	50.00	Rv2711, TB
DRB1_1302	95	EVHAEACRWEHVMS	EVHAEACRW	0.2004	5717.0	50.00	Rv2711, TB
DRB1_1302	94	EEVHAEACRWEHVMS	EVHAEACRW	0.1994	5779.1	50.00	Rv2711, TB
DRB1_1302	30	AERLDQSGPTVSQTV	RLDQSGPTV	0.1921	6258.7	50.00	Rv2711, TB
DRB1_1302	32	RLDQSGPTVSQTVSR	RLDQSGPTV	0.1916	6288.0	50.00	Rv2711, TB
DRB1_1302	5	DTEMYLRTIYDLEE	LRTIYDLEE	0.1907	6354.9	50.00	Rv2711, TB
DRB1_1302	27	ARIAERLDQSGPTVS	RLDQSGPTV	0.1904	6372.0	50.00	Rv2711, TB
DRB1_1302	4	VTTEMYLRTIYDLE	TTEMYLRTI	0.1899	6408.5	50.00	Rv2711, TB
DRB1_1302	142	EPGADDANLVRLTEL	ANLVRLTEL	0.1891	6461.0	50.00	Rv2711, TB
DRB1_1302	28	RIAERLDQSGPTVSQ	RLDQSGPTV	0.1867	6635.4	50.00	Rv2711, TB
DRB1_1302	171	EHVQGDIDLITRLKD	GDIDLITRL	0.1853	6736.9	50.00	Rv2711, TB
DRB1_1302	119	LNNPTTSPFGNPIPG	LNNPTTSPF	0.1849	6764.8	50.00	Rv2711, TB
DRB1_1302	146	DDANLVRLTELPAGS	ANLVRLTEL	0.1840	6826.5	50.00	Rv2711, TB
DRB1_1302	29	IAERLDQSGPTVSQT	RLDQSGPTV	0.1832	6891.5	50.00	Rv2711, TB
DRB1_1302	56	AGDRHLELTEKGRAL	ELTEKGRAL	0.1830	6905.5	50.00	Rv2711, TB
DRB1_1302	147	DANLVRLTELPAGSP	ANLVRLTEL	0.1821	6968.0	50.00	Rv2711, TB
DRB1_1302	166	VRQLTEHVQGDIDL	HVQGDIDL	0.1819	6983.3	50.00	Rv2711, TB
DRB1_1302	207	VIPGHENVTLPHEMA	VIPGHENVT	0.1818	6994.1	50.00	Rv2711, TB
DRB1_1302	197	ETTPGGGVTIVIPGH	TPGGGVTI	0.1809	7061.7	50.00	Rv2711, TB
DRB1_1302	148	ANLVRLTELPAGSPV	ANLVRLTEL	0.1801	7123.5	50.00	Rv2711, TB
DRB1_1302	190	PNARVTVETTPGGGV	VETTPGGGV	0.1794	7174.7	50.00	Rv2711, TB
DRB1_1302	143	PGADDANLVRLTELP	ANLVRLTEL	0.1793	7187.6	50.00	Rv2711, TB
DRB1_1302	149	NLVRLTELPAGSPVA	ELPAGSPVA	0.1768	7381.6	50.00	Rv2711, TB
DRB1_1302	191	NARVTVETTPGGGVT	VETTPGGGV	0.1762	7433.2	50.00	Rv2711, TB
DRB1_1302	6	TTEMYLRTIYDLEEE	LRTIYDLEE	0.1761	7440.4	50.00	Rv2711, TB
DRB1_1302	199	TPGGGVTIVIPGHEN	VTIVIPGHE	0.1747	7552.9	50.00	Rv2711, TB
DRB1_1302	22	VTPLRARIAERLDQS	LRARIAERL	0.1725	7736.2	50.00	Rv2711, TB
DRB1_1302	121	NPTTSPFGNPIPGLV	FGNPIPGLV	0.1704	7911.0	50.00	Rv2711, TB
DRB1_1302	123	TTSFPGNPIPGLVEL	FGNPIPGLV	0.1696	7979.2	50.00	Rv2711, TB
DRB1_1302	40	VSQTVSRMERDGLLR	SRMERDGLL	0.1672	8190.3	50.00	Rv2711, TB
DRB1_1302	26	RARIAERLDQSGPTV	RLDQSGPTV	0.1670	8212.1	50.00	Rv2711, TB
DRB1_1302	53	LRVAGDRHLELTEKG	LRVAGDRHL	0.1656	8330.0	50.00	Rv2711, TB
DRB1_1302	208	IPGHENVTLPHEMAH	IPGHENVTL	0.1621	8659.2	50.00	Rv2711, TB
DRB1_1302	167	RQLTEHVQGDIDLIT	HVQGDIDL	0.1603	8826.5	50.00	Rv2711, TB
DRB1_1302	168	QLTEHVQGDIDLITR	HVQGDIDL	0.1514	9714.7	50.00	Rv2711, TB
DRB1_1302	23	TPLRARIAERLDQSG	LRARIAERL	0.1481	10070.2	50.00	Rv2711, TB
DRB1_1302	7	TEMYLRTIYDLEEEG	LRTIYDLEE	0.1465	10248.8	50.00	Rv2711, TB
DRB1_1302	209	PGHENVTLPHEMAHA	ENVTLPHEM	0.1464	10255.5	50.00	Rv2711, TB
DRB1_1302	122	PTTSPFGNPIPGLVE	FGNPIPGLV	0.1455	10354.3	50.00	Rv2711, TB
DRB1_1302	11	LRTIYDLEEEGVTP	LEEEGVTP	0.1449	10425.5	50.00	Rv2711, TB
DRB1_1302	139	VGPEPGADDANLVRL	ADDANLVRL	0.1436	10571.5	50.00	Rv2711, TB
DRB1_1302	25	LRARIAERLDQSGPT	LRARIAERL	0.1415	10812.7	50.00	Rv2711, TB
DRB1_1302	140	GPEPGADDANLVRLT	ADDANLVRL	0.1414	10832.5	50.00	Rv2711, TB
DRB1_1302	172	HVQGDIDLITRLKDA	GDIDLITRL	0.1406	10920.0	50.00	Rv2711, TB
DRB1_1302	106	VMSERVEDVRLVKVLN	VERRLVKVL	0.1402	10973.2	50.00	Rv2711, TB
DRB1_1302	24	PLRARIAERLDQSGP	LRARIAERL	0.1385	11167.6	50.00	Rv2711, TB
DRB1_1302	125	SPFGNPIPGLVELGV	FGNPIPGLV	0.1381	11226.7	50.00	Rv2711, TB
DRB1_1302	105	HVMSERVEDVRLVKV	VERRLVKVL	0.1377	11268.1	50.00	Rv2711, TB
DRB1_1302	14	IYDLEEEGVTPPLR	LEEEGVTP	0.1339	11741.9	50.00	Rv2711, TB
DRB1_1302	124	TSPFGNPIPGLVELG	FGNPIPGLV	0.1318	12015.4	50.00	Rv2711, TB
DRB1_1302	173	VQGDIDLITRLKDG	GDIDLITRL	0.1284	12465.8	50.00	Rv2711, TB
DRB1_1302	141	PEPGADDANLVRLTE	ADDANLVRL	0.1270	12654.3	50.00	Rv2711, TB
DRB1_1302	13	TIYDLEEEGVTPPLR	LEEEGVTP	0.1266	12708.8	50.00	Rv2711, TB
DRB1_1302	12	RTIYDLEEEGVTPPL	LEEEGVTP	0.1251	12919.1	50.00	Rv2711, TB
DRB1_1302	126	PFGNPIPGLVELGVG	FGNPIPGLV	0.1237	13108.1	50.00	Rv2711, TB
DRB1_1302	120	NNPTTSPFGNPIPGL	TTSPFGNPI	0.1163	14199.2	50.00	Rv2711, TB
DRB1_1302	127	FGNPIPGLVELGVGP	FGNPIPGLV	0.1161	14244.4	50.00	Rv2711, TB
DRB1_1302	104	EHVMSERVEDVRLVKV	DVERRLVKV	0.1138	14595.9	50.00	Rv2711, TB
DRB1_1302	189	VPNARVTVETTPGGG	RVTVETTPG	0.1099	15221.2	50.00	Rv2711, TB
DRB1_1302	8	EMYLRTIYDLEEEGV	LRTIYDLEE	0.1086	15444.0	50.00	Rv2711, TB
DRB1_1302	128	GNPIPGLVELGVGPE	LVELGVGPE	0.0992	17102.4	50.00	Rv2711, TB

DRB1_1302	9	MYLRTIYDLEEEGV	LRTIYDLEE	0.0945	17986.3	50.00	Rv2711, TB
DRB1_1302	55	VAGDRHLELTEKGRA	LELTEKGRA	0.0875	19393.2	50.00	Rv2711, TB
DRB1_1302	129	NPVGLVGLVGVGPEP	LVELGVGPE	0.0852	19890.3	50.00	Rv2711, TB
DRB1_1302	138	GVGPEPGADDANLVR	PGADDANLV	0.0812	20762.8	50.00	Rv2711, TB
DRB1_1302	87	DVIGLPWEEVHAEAC	WEEVHAEAC	0.0811	20781.5	50.00	Rv2711, TB
DRB1_1302	88	VIGLPWEEVHAEACR	WEEVHAEAC	0.0809	20832.1	50.00	Rv2711, TB
DRB1_1302	137	LVGVGPEPGADDANLV	PGADDANLV	0.0707	23255.1	50.00	Rv2711, TB
DRB1_1302	54	RVAGDRHLELTEKGR	VAGDRHLEL	0.0684	23855.0	50.00	Rv2711, TB
DRB1_1302	131	IPGLVGLVGVGPEPGA	LVELGVGPE	0.0649	24765.0	50.00	Rv2711, TB
DRB1_1302	130	PIVGLVGLVGVGPEPG	LVELGVGPE	0.0617	25659.6	50.00	Rv2711, TB
DRB1_1302	86	VDVIGLPWEEVHAEA	VIGLPWEEV	0.0539	27912.8	50.00	Rv2711, TB
DRB1_1302	133	GLVELGVGPEPGADD	LVELGVGPE	0.0533	28073.0	50.00	Rv2711, TB
DRB1_1302	10	YLRTIYDLEEEGVTP	LRTIYDLEE	0.0529	28211.9	50.00	Rv2711, TB
DRB1_1302	132	PGLVGLVGVGPEPGAD	LVELGVGPE	0.0515	28632.6	50.00	Rv2711, TB
DRB1_1302	134	LVVELGVGPEPGADDA	LVELGVGPE	0.0488	29488.1	50.00	Rv2711, TB
DRB1_1302	96	VHAEACRWEHVMSD	EACRWEHVM	0.0396	32583.6	50.00	Rv2711, TB
DRB1_1302	136	ELGVGPEPGADDANL	LVGVGPEPGA	0.0341	34578.5	50.00	Rv2711, TB
DRB1_1302	135	VELGVGPEPGADDAN	LVGVGPEPGA	0.0340	34624.9	50.00	Rv2711, TB

Allele: DRB1\_1302. Number of high binders 3. Number of weak binders 35. Number of peptides 216

Allele	pos	peptide	core	l-log50k(aff)	affinity(nM)	Bind Level	%Random	Identity
DRB1_1501	113	RRLVKVLNNPTTSPF	LVKVLNNPT	0.7507	14.8	SB	0.80	Rv2711, TB
DRB1_1501	112	ERRLVKVLNNPTTSP	LVKVLNNPT	0.7470	15.4	SB	0.80	Rv2711, TB
DRB1_1501	111	VERRLVKVLNNPTTS	LVKVLNNPT	0.7279	19.0	SB	1.00	Rv2711, TB
DRB1_1501	114	RLVKVLNNPTTSPFG	LVKVLNNPT	0.7248	19.6	SB	1.00	Rv2711, TB
DRB1_1501	19	EEGVTPLRARIAERL	GVTPLRARI	0.6999	25.7	SB	2.00	Rv2711, TB
DRB1_1501	110	DVERRLVKVLNNPTT	LVKVLNNPT	0.6986	26.1	SB	2.00	Rv2711, TB
DRB1_1501	18	EEGVTPLRARIAER	GVTPLRARI	0.6941	27.4	SB	2.00	Rv2711, TB
DRB1_1501	20	EGVTPLRARIAERLD	GVTPLRARI	0.6883	29.2	SB	2.00	Rv2711, TB
DRB1_1501	17	LEEEGVTPLRARIAE	GVTPLRARI	0.6713	35.0	SB	4.00	Rv2711, TB
DRB1_1501	70	LAIAMVRKHRLAERL	IAMVRKHRL	0.6573	40.8	SB	4.00	Rv2711, TB
DRB1_1501	16	DLEEEGVTPLRARIA	GVTPLRARI	0.6504	43.9	SB	4.00	Rv2711, TB
DRB1_1501	69	ALAIAMVRKHRLAER	IAMVRKHRL	0.6395	49.4	SB	4.00	Rv2711, TB
DRB1_1501	71	AIAMVRKHRLAERLL	IAMVRKHRL	0.6370	50.8	WB	4.00	Rv2711, TB
DRB1_1501	68	RALAIAMVRKHRLAE	IAMVRKHRL	0.6304	54.6	WB	4.00	Rv2711, TB
DRB1_1501	21	GVTPLRARIAERLDQ	GVTPLRARI	0.6224	59.4	WB	8.00	Rv2711, TB
DRB1_1501	109	EDVERRLVKVLNNPT	LVKVLNNPT	0.6114	67.0	WB	8.00	Rv2711, TB
DRB1_1501	72	IAMVRKHRLAERLLV	AMVRKHRLA	0.5807	93.4	WB	8.00	Rv2711, TB
DRB1_1501	115	LVKVLNNPTTSPFGN	LVKVLNNPT	0.5795	94.6	WB	8.00	Rv2711, TB
DRB1_1501	67	GRALAIAMVRKHRLA	IAMVRKHRL	0.5770	97.1	WB	8.00	Rv2711, TB
DRB1_1501	66	KGRALAIAMVRKHRL	RALAIAMVR	0.5589	118.3	WB	16.00	Rv2711, TB
DRB1_1501	161	PVAVVVRQLTEHVQG	VVVRQLTEH	0.5302	161.3	WB	16.00	Rv2711, TB
DRB1_1501	162	VAVVVRQLTEHVQGD	VVVRQLTEH	0.5253	170.0	WB	16.00	Rv2711, TB
DRB1_1501	160	SPAVVVRQLTEHVQ	VVVRQLTEH	0.5145	191.2	WB	16.00	Rv2711, TB
DRB1_1501	175	GDIDLITRLKDGAVV	LITRLKDAG	0.5052	211.4	WB	16.00	Rv2711, TB
DRB1_1501	73	AVMRKHRLAERLLVD	AMVRKHRLA	0.5046	212.7	WB	16.00	Rv2711, TB
DRB1_1501	163	VVVRQLTEHVQGD	VVVRQLTEH	0.5022	218.4	WB	16.00	Rv2711, TB
DRB1_1501	159	GSPVAVVVRQLTEHV	VVVRQLTEH	0.4901	248.9	WB	16.00	Rv2711, TB
DRB1_1501	176	DIDLITRLKDGAVVP	LITRLKDAG	0.4872	256.8	WB	32.00	Rv2711, TB
DRB1_1501	15	YDLEEEGVTPLRARI	GVTPLRARI	0.4857	261.1	WB	32.00	Rv2711, TB
DRB1_1501	177	LDLITRLKDGAVVPI	LITRLKDAG	0.4763	288.9	WB	32.00	Rv2711, TB
DRB1_1501	174	QGDIDLITRLKDGAV	LITRLKDAG	0.4735	297.8	WB	32.00	Rv2711, TB
DRB1_1501	164	VVVRQLTEHVQGDID	VVVRQLTEH	0.4705	307.6	WB	32.00	Rv2711, TB
DRB1_1501	65	EKGRALAIAMVRKHR	RALAIAMVR	0.4693	311.7	WB	32.00	Rv2711, TB
DRB1_1501	4	VDTTEMYLRTIYDLE	TEMYLRTIY	0.4614	339.6	WB	32.00	Rv2711, TB
DRB1_1501	49	RDGLLRVAGDRHLEL	GLLRVAGDR	0.4535	369.9	WB	32.00	Rv2711, TB
DRB1_1501	62	ELTEKGRALAIAMVR	LTEKGRALA	0.4502	383.4	WB	32.00	Rv2711, TB
DRB1_1501	63	LTEKGRALAIAMVRK	LTEKGRALA	0.4476	394.4	WB	32.00	Rv2711, TB
DRB1_1501	178	DLITRLKDGAVVPI	LITRLKDAG	0.4471	396.3	WB	32.00	Rv2711, TB
DRB1_1501	64	TEKGRALAIAMVRKH	RALAIAMVR	0.4452	404.5	WB	32.00	Rv2711, TB
DRB1_1501	5	DTEMYLRTIYDLEE	TEMYLRTIY	0.4414	421.4	WB	32.00	Rv2711, TB
DRB1_1501	60	HLELTEKGRALAIAMV	LTEKGRALA	0.4375	439.5	WB	32.00	Rv2711, TB
DRB1_1501	50	DGLLRVAGDRHLELT	GLLRVAGDR	0.4339	457.1	WB	32.00	Rv2711, TB
DRB1_1501	48	ERDGLLRVAGDRHLE	GLLRVAGDR	0.4324	464.7	WB	32.00	Rv2711, TB
DRB1_1501	61	LELTEKGRALAIAMV	LTEKGRALA	0.4320	466.6	WB	32.00	Rv2711, TB
DRB1_1501	46	RMERDGLLRVAGDRH	GLLRVAGDR	0.4314	469.6	WB	32.00	Rv2711, TB
DRB1_1501	47	MERDGLLRVAGDRHL	GLLRVAGDR	0.4308	472.8	WB	32.00	Rv2711, TB
DRB1_1501	51	GLLRVAGDRHLEL	GLLRVAGDR	0.4203	529.5	WB	32.00	Rv2711, TB
DRB1_1501	6	TTEMYLRTIYDLEE	TEMYLRTIY	0.4125	576.0	WB	32.00	Rv2711, TB
DRB1_1501	108	SEVERRLVKVLNNP	RLVKVLNNP	0.4111	585.1	WB	32.00	Rv2711, TB
DRB1_1501	147	DANLVRLTELPAGSP	LVRLTELPA	0.4097	593.8	WB	32.00	Rv2711, TB
DRB1_1501	148	ANLVRLTELPAGSPV	LVRLTELPA	0.4071	610.8	WB	32.00	Rv2711, TB

DRB1_1501	146	DDANLVRLTELPAGS	LVRLTELPA	0.4029	639.1	32.00	Rv2711, TB
DRB1_1501	158	AGSPVAVVVRQLTEH	VVVRQLTEH	0.4018	647.3	32.00	Rv2711, TB
DRB1_1501	74	VMRKHRLAERLLVDV	VMRKHRLAE	0.4012	651.5	32.00	Rv2711, TB
DRB1_1501	173	VQGDIDLITRLKDAG	LITRLKDAG	0.3985	670.8	32.00	Rv2711, TB
DRB1_1501	145	ADDANLVRLTELPAG	NLVRLTELP	0.3873	756.7	32.00	Rv2711, TB
DRB1_1501	22	VTPLRARIAERLDQS	PLRARIAER	0.3811	809.8	50.00	Rv2711, TB
DRB1_1501	3	LVDTTTEMYLRTIYDL	TEMYLRTIY	0.3791	827.3	50.00	Rv2711, TB
DRB1_1501	149	NVRLTELPAGSPVA	LVRLTELPA	0.3761	854.7	50.00	Rv2711, TB
DRB1_1501	7	TEMYLRTIYDLEEEG	TEMYLRTIY	0.3677	935.7	50.00	Rv2711, TB
DRB1_1501	2	ELVDTTEMYLRTIYD	TEMYLRTIY	0.3560	1062.2	50.00	Rv2711, TB
DRB1_1501	79	RLAERLLVDVIGLPW	LVDVIGLPW	0.3539	1086.0	50.00	Rv2711, TB
DRB1_1501	179	LITRLKDAGVVPNAR	LITRLKDAG	0.3519	1110.5	50.00	Rv2711, TB
DRB1_1501	80	LAERLLVDVIGLPWE	LVDVIGLPW	0.3511	1120.2	50.00	Rv2711, TB
DRB1_1501	59	RHLELTEKGRALAI	LTEKGRALA	0.3486	1150.9	50.00	Rv2711, TB
DRB1_1501	144	GADDANLVRLTELPA	NLVRLTELP	0.3484	1153.5	50.00	Rv2711, TB
DRB1_1501	205	TIVIPGHENVTLPHE	VIPGHENVT	0.3479	1159.5	50.00	Rv2711, TB
DRB1_1501	202	GGVTIVIPGHENVTL	VIPGHENVT	0.3444	1204.4	50.00	Rv2711, TB
DRB1_1501	203	GVTIVIPGHENVTLP	IVIPGHENV	0.3438	1211.3	50.00	Rv2711, TB
DRB1_1501	81	AERLLVDVIGLPWEE	LVDVIGLPW	0.3402	1259.9	50.00	Rv2711, TB
DRB1_1501	204	VTVIPGHENVTLPHE	VIPGHENVT	0.3394	1271.1	50.00	Rv2711, TB
DRB1_1501	206	IVIPGHENVTLPHEM	VIPGHENVT	0.3374	1298.8	50.00	Rv2711, TB
DRB1_1501	45	SRMERDGLLRVAGDR	RMERDGLLR	0.3335	1354.2	50.00	Rv2711, TB
DRB1_1501	150	LVRLTELPAGSPVAV	LVRLTELPA	0.3334	1355.8	50.00	Rv2711, TB
DRB1_1501	83	RLLDVIGLPWEEVH	LVDVIGLPW	0.3322	1374.4	50.00	Rv2711, TB
DRB1_1501	84	LLVDVIGLPWEEVHA	LVDVIGLPW	0.3316	1382.9	50.00	Rv2711, TB
DRB1_1501	106	VMSEDVERRLVKVLN	DVERRLVKV	0.3266	1459.0	50.00	Rv2711, TB
DRB1_1501	75	MRKHRLAERLLVDVI	MRKHRLAER	0.3265	1460.8	50.00	Rv2711, TB
DRB1_1501	43	TVSRMERDGLLRVAG	RMERDGLLR	0.3245	1492.5	50.00	Rv2711, TB
DRB1_1501	82	ERLLVDVIGLPWEEV	LVDVIGLPW	0.3227	1523.3	50.00	Rv2711, TB
DRB1_1501	52	LLRVAGDRHLELTEK	LLRVAGDRH	0.3206	1558.1	50.00	Rv2711, TB
DRB1_1501	41	SQTVSRMERDGLLRV	RMERDGLLR	0.3200	1568.4	50.00	Rv2711, TB
DRB1_1501	107	MSEDVERRLVKVLNN	DVERRLVKV	0.3193	1579.2	50.00	Rv2711, TB
DRB1_1501	58	DRHLELTEKGRALAI	LTEKGRALA	0.3180	1602.7	50.00	Rv2711, TB
DRB1_1501	131	IPGLVELGVGPEPGA	GLVELGVGP	0.3175	1610.4	50.00	Rv2711, TB
DRB1_1501	44	VSVMERDGLLRVAGD	RMERDGLLR	0.3131	1688.8	50.00	Rv2711, TB
DRB1_1501	42	QTVSRMERDGLLRVA	RMERDGLLR	0.3124	1701.8	50.00	Rv2711, TB
DRB1_1501	78	HRLAERLLVDVIGLP	AERLLVDVI	0.3113	1722.0	50.00	Rv2711, TB
DRB1_1501	130	PIPGLVELGVGPEPG	GLVELGVGP	0.3078	1788.4	50.00	Rv2711, TB
DRB1_1501	1	NELVDTTEMYLRTIY	TEMYLRTIY	0.3058	1828.2	50.00	Rv2711, TB
DRB1_1501	172	HVQGDIDLITRLKDA	DLITRLKDA	0.3025	1895.0	50.00	Rv2711, TB
DRB1_1501	105	HVMSEDVERRLVKVL	DVERRLVKV	0.2987	1974.8	50.00	Rv2711, TB
DRB1_1501	132	PGLVELGVGPEPGAD	GLVELGVGP	0.2949	2057.9	50.00	Rv2711, TB
DRB1_1501	24	PLRARIAERLDQSGP	PLRARIAER	0.2931	2097.3	50.00	Rv2711, TB
DRB1_1501	151	VRLTELPAGSPVAVV	ELPAGSPVA	0.2903	2161.5	50.00	Rv2711, TB
DRB1_1501	129	NPVGLVELGVGPEP	GLVELGVGP	0.2903	2162.7	50.00	Rv2711, TB
DRB1_1501	77	KHRLAERLLVDVIGL	AERLLVDVI	0.2894	2183.3	50.00	Rv2711, TB
DRB1_1501	116	VKVLNNPTTSPFGNP	VKVLNNPTT	0.2887	2200.0	50.00	Rv2711, TB
DRB1_1501	8	EMYLRTIYDLEEEGV	YLRTIYDLE	0.2886	2201.8	50.00	Rv2711, TB
DRB1_1501	23	TPLRARIAERLDQSG	PLRARIAER	0.2875	2229.2	50.00	Rv2711, TB
DRB1_1501	133	GLVELGVGPEPGADD	GLVELGVGP	0.2840	2313.3	50.00	Rv2711, TB
DRB1_1501	76	RKHRLAERLLVDVIG	HRLAERLLV	0.2759	2526.0	50.00	Rv2711, TB
DRB1_1501	85	LVDVIGLPWEEVHAE	LVDVIGLPW	0.2729	2608.6	50.00	Rv2711, TB
DRB1_1501	118	VLNNPTTSPFGNPPIP	TTSPFGNPI	0.2686	2733.1	50.00	Rv2711, TB
DRB1_1501	40	VSQTVSRMERDGLLR	RMERDGLLR	0.2666	2793.0	50.00	Rv2711, TB
DRB1_1501	143	PGADDANLVRLTELP	NLVRLTELP	0.2647	2850.8	50.00	Rv2711, TB
DRB1_1501	207	VIPGHENVTLPHEMA	VIPGHENVT	0.2642	2868.9	50.00	Rv2711, TB
DRB1_1501	128	GNPIPGLVELGVGPE	GLVELGVGP	0.2617	2945.2	50.00	Rv2711, TB
DRB1_1501	152	RTELPAGSPVAVVV	LTELPAGSP	0.2612	2962.3	50.00	Rv2711, TB
DRB1_1501	57	GDRHLELTEKGRALA	LTEKGRALA	0.2610	2967.2	50.00	Rv2711, TB
DRB1_1501	201	GGVTVIPGHENVT	VIPGHENVT	0.2604	2988.1	50.00	Rv2711, TB
DRB1_1501	117	VLNNPTTSPFGNPPI	VLNNPTTSP	0.2558	3138.8	50.00	Rv2711, TB
DRB1_1501	104	EHVMSEDVERRLVKV	DVERRLVKV	0.2537	3212.7	50.00	Rv2711, TB
DRB1_1501	38	PTVSQTVSRMERDGL	PTVSQTVSR	0.2459	3495.3	50.00	Rv2711, TB
DRB1_1501	28	RIAERLDQSGPTVSQ	RLDQSGPTV	0.2456	3505.6	50.00	Rv2711, TB
DRB1_1501	27	ARIAERLDQSGPTVS	RLDQSGPTV	0.2445	3550.4	50.00	Rv2711, TB
DRB1_1501	171	EHVQGDIDLITRLKD	HVQGDIDL	0.2393	3756.0	50.00	Rv2711, TB
DRB1_1501	29	IAERLDQSGPTVSQT	RLDQSGPTV	0.2393	3756.1	50.00	Rv2711, TB
DRB1_1501	26	RARIAERLDQSGPTV	RLDQSGPTV	0.2390	3764.4	50.00	Rv2711, TB
DRB1_1501	170	TEHVQGDIDLITRLK	HVQGDIDL	0.2380	3805.9	50.00	Rv2711, TB
DRB1_1501	30	AERLDQSGPTVSQTV	RLDQSGPTV	0.2364	3873.0	50.00	Rv2711, TB
DRB1_1501	14	IYDLEEEGVTPPLRAR	EGVTPPLRAR	0.2353	3921.3	50.00	Rv2711, TB
DRB1_1501	165	VVRQLTEHVQGDIDL	VVRQLTEHV	0.2343	3963.3	50.00	Rv2711, TB
DRB1_1501	120	NNPTTSPFGNPPIPGL	TTSPFGNPI	0.2330	4018.5	50.00	Rv2711, TB
DRB1_1501	121	NPPTTSPFGNPPIPGL	TTSPFGNPI	0.2300	4152.1	50.00	Rv2711, TB
DRB1_1501	9	MYLRTIYDLEEEGV	YLRTIYDLE	0.2290	4196.7	50.00	Rv2711, TB
DRB1_1501	188	VVPNARVTVETTPGG	VVPNARVTV	0.2288	4206.3	50.00	Rv2711, TB
DRB1_1501	0	MNELVDTTEMYLRTI	TTEMYLRTI	0.2277	4255.1	50.00	Rv2711, TB

DRB1_1501	31	ERLDQSGPTVSQTVS	RLDQSGPTV	0.2247	4395.7	50.00	Rv2711, TB
DRB1_1501	213	NVTLPHEMAHAVKVE	TLPHEMAHA	0.2241	4424.9	50.00	Rv2711, TB
DRB1_1501	157	PAGSPVAVVVRQLTE	PVAVVVRQL	0.2231	4474.8	50.00	Rv2711, TB
DRB1_1501	39	TVSQTVSRMERDGLL	TVSQTVSRM	0.2215	4553.0	50.00	Rv2711, TB
DRB1_1501	10	YLRTIYDLEEEGVTP	YLRTIYDLE	0.2198	4635.3	50.00	Rv2711, TB
DRB1_1501	200	PGGGVTIVIPGHENV	IVIPGHENV	0.2184	4704.9	50.00	Rv2711, TB
DRB1_1501	103	WEHVMSSEDEVERRLV	VMSEDEVERR	0.2184	4708.6	50.00	Rv2711, TB
DRB1_1501	119	LNNPTTSPFGNPIPG	TTSPFGNPI	0.2174	4756.4	50.00	Rv2711, TB
DRB1_1501	212	ENVTLPEMAHAVKV	TLPHEMAHA	0.2160	4828.2	50.00	Rv2711, TB
DRB1_1501	182	RLKDAGVVPNARVTV	RLKDAGVVP	0.2153	4867.0	50.00	Rv2711, TB
DRB1_1501	32	RLDQSGPTVSQTVSR	RLDQSGPTV	0.2152	4870.4	50.00	Rv2711, TB
DRB1_1501	187	GVVPNARVTVETTPG	VVPNARVTV	0.2148	4895.7	50.00	Rv2711, TB
DRB1_1501	192	ARVTVETTPGGGVTI	RVTVETTPG	0.2145	4908.7	50.00	Rv2711, TB
DRB1_1501	214	VTLPEMAHAVKVEK	TLPHEMAHA	0.2137	4951.5	50.00	Rv2711, TB
DRB1_1501	127	FGNPIPGLVELGVGP	GLVELGVGP	0.2132	4979.1	50.00	Rv2711, TB
DRB1_1501	122	PTTSPFGNPIPGLVE	TTSPFGNPI	0.2129	4993.7	50.00	Rv2711, TB
DRB1_1501	102	RWEHVMSSEDEVERRLV	VMSEDEVERR	0.2125	5016.3	50.00	Rv2711, TB
DRB1_1501	153	LTELPAGSPVAVVVR	LTELPAGSP	0.2105	5125.4	50.00	Rv2711, TB
DRB1_1501	169	LTEHVQGDIDLITRL	HVQGDIDLI	0.2102	5141.7	50.00	Rv2711, TB
DRB1_1501	56	AGDRHLELTEKGRAL	ELTEKGRAL	0.2066	5345.5	50.00	Rv2711, TB
DRB1_1501	89	IGLPWEEVHAEACRW	EVHAEACRW	0.2050	5438.9	50.00	Rv2711, TB
DRB1_1501	100	ACRWEHVMSSEDEVERR	WEHVMSSEDEV	0.2039	5504.0	50.00	Rv2711, TB
DRB1_1501	180	ITRLKDAGVVPNARV	RLKDAGVVP	0.2021	5613.6	50.00	Rv2711, TB
DRB1_1501	90	GLPWEEVHAEACRW	EVHAEACRW	0.2011	5676.2	50.00	Rv2711, TB
DRB1_1501	101	CRWEHVMSSEDEVERRLV	VMSEDEVERR	0.2007	5701.2	50.00	Rv2711, TB
DRB1_1501	190	PNARVTVETTPGGGV	RVTVETTPG	0.1981	5863.1	50.00	Rv2711, TB
DRB1_1501	191	NARVTVETTPGGGV	RVTVETTPG	0.1975	5899.5	50.00	Rv2711, TB
DRB1_1501	37	GPVTSQTVSRMERDG	TVSQTVSRM	0.1968	5948.9	50.00	Rv2711, TB
DRB1_1501	36	SGPTVSQTVSRMERD	TVSQTVSRM	0.1967	5949.6	50.00	Rv2711, TB
DRB1_1501	208	IPGHENVTLPEMAH	VTLPEMAH	0.1957	6016.7	50.00	Rv2711, TB
DRB1_1501	92	PWEEVHAEACRWEHV	EVHAEACRW	0.1954	6039.5	50.00	Rv2711, TB
DRB1_1501	185	DAGVVPNARVTVETT	VVPNARVTV	0.1952	6049.5	50.00	Rv2711, TB
DRB1_1501	186	AGVVPNARVTVETTP	VVPNARVTV	0.1934	6165.9	50.00	Rv2711, TB
DRB1_1501	86	VDVIGLPWEEVHAEA	VIGLPWEEV	0.1934	6166.2	50.00	Rv2711, TB
DRB1_1501	211	HENVTLPEMAHAVK	TLPHEMAHA	0.1930	6193.6	50.00	Rv2711, TB
DRB1_1501	210	GHENVTLPEMAHAV	VTLPEMAH	0.1923	6243.6	50.00	Rv2711, TB
DRB1_1501	91	LPWEEVHAEACRWEH	EVHAEACRW	0.1908	6343.4	50.00	Rv2711, TB
DRB1_1501	93	WEEVHAEACRWEHVM	EVHAEACRW	0.1899	6409.8	50.00	Rv2711, TB
DRB1_1501	184	KDAGVVPNARVTVET	VVPNARVTV	0.1891	6463.5	50.00	Rv2711, TB
DRB1_1501	155	ELPAGSPVAVVVRQL	ELPAGSPVA	0.1887	6493.9	50.00	Rv2711, TB
DRB1_1501	123	TTSPFGNPIPGLVEL	TTSPFGNPI	0.1879	6548.1	50.00	Rv2711, TB
DRB1_1501	35	QSGPTVSQTVSRMER	PTVSQTVSR	0.1874	6583.4	50.00	Rv2711, TB
DRB1_1501	193	RVTVETTPGGGV	RVTVETTPG	0.1860	6682.5	50.00	Rv2711, TB
DRB1_1501	181	TRLKDAGVVPNARVT	RLKDAGVVP	0.1854	6727.3	50.00	Rv2711, TB
DRB1_1501	94	EEVHAEACRWEHVMS	EVHAEACRW	0.1826	6929.5	50.00	Rv2711, TB
DRB1_1501	183	LKDAGVVPNARVTVE	VVPNARVTV	0.1812	7038.9	50.00	Rv2711, TB
DRB1_1501	25	LRARIAERLDQSGPT	LRARIAERL	0.1804	7103.3	50.00	Rv2711, TB
DRB1_1501	87	DVIGLPWEEVHAEAC	VIGLPWEEV	0.1803	7109.0	50.00	Rv2711, TB
DRB1_1501	215	TLPHEMAHAVKVEKV	TLPHEMAHA	0.1780	7287.5	50.00	Rv2711, TB
DRB1_1501	156	LPAGSPVAVVVRQLT	PVAVVVRQL	0.1776	7315.8	50.00	Rv2711, TB
DRB1_1501	34	DQSGPTVSQTVSRM	TVSQTVSRM	0.1770	7369.8	50.00	Rv2711, TB
DRB1_1501	154	TELPAGSPVAVVVRQ	TELPAGSPVA	0.1768	7380.7	50.00	Rv2711, TB
DRB1_1501	197	ETTPGGGV	GGVTIVIPG	0.1742	7595.1	50.00	Rv2711, TB
DRB1_1501	209	PGHENVTLPEMAHA	VTLPEMAH	0.1733	7668.4	50.00	Rv2711, TB
DRB1_1501	99	EACRWEHVMSSEDEV	ACRWEHVMS	0.1730	7695.7	50.00	Rv2711, TB
DRB1_1501	88	VIGLPWEEVHAEACR	GLPWEEVHA	0.1721	7767.7	50.00	Rv2711, TB
DRB1_1501	189	VPNARVTVETTPGGG	RVTVETTPG	0.1719	7783.8	50.00	Rv2711, TB
DRB1_1501	198	TTPGGGV	GVTIVIPGH	0.1712	7846.7	50.00	Rv2711, TB
DRB1_1501	95	EVHAEACRWEHVMS	ACRWEHVMS	0.1693	8008.4	50.00	Rv2711, TB
DRB1_1501	168	QLTEHVQGDIDLITR	HVQGDIDLI	0.1688	8050.0	50.00	Rv2711, TB
DRB1_1501	199	TPGGGV	GVTIVIPGH	0.1682	8102.6	50.00	Rv2711, TB
DRB1_1501	134	LVELGVGPEPGADDA	LVELGVGPE	0.1626	8609.7	50.00	Rv2711, TB
DRB1_1501	33	LDQSGPTVSQTVSRM	TVSQTVSRM	0.1616	8702.3	50.00	Rv2711, TB
DRB1_1501	55	VAGDRHLELTEKGRA	RHLELTEKG	0.1602	8834.8	50.00	Rv2711, TB
DRB1_1501	126	PIGNPIPGLVELGVG	PIPGLVELG	0.1600	8853.1	50.00	Rv2711, TB
DRB1_1501	98	AACRWEHVMSSEDEV	ACRWEHVMS	0.1592	8928.5	50.00	Rv2711, TB
DRB1_1501	53	LRVAGDRHLELTEKG	AGDRHLELT	0.1586	8989.2	50.00	Rv2711, TB
DRB1_1501	97	HAEACRWEHVMSSEDEV	ACRWEHVMS	0.1577	9077.9	50.00	Rv2711, TB
DRB1_1501	54	RVAGDRHLELTEKGR	AGDRHLELT	0.1459	10315.9	50.00	Rv2711, TB
DRB1_1501	196	VEETTPGGGV	TTPGGGV	0.1432	10613.7	50.00	Rv2711, TB
DRB1_1501	125	SPFGNPIPGLVELGV	PIPGLVELG	0.1424	10708.8	50.00	Rv2711, TB
DRB1_1501	167	RQLTEHVQGDIDLIT	HVQGDIDLI	0.1418	10783.0	50.00	Rv2711, TB
DRB1_1501	166	VRQLTEHVQGDIDLIT	HVQGDIDLI	0.1363	11446.8	50.00	Rv2711, TB
DRB1_1501	11	LRTIYDLEEEGVTP	TIYDLEEEG	0.1208	13524.1	50.00	Rv2711, TB
DRB1_1501	12	RTIYDLEEEGVTP	DLEEEGVTP	0.1205	13575.6	50.00	Rv2711, TB
DRB1_1501	124	TSPFGNPIPGLVELG	PIPGLVELG	0.1195	13729.6	50.00	Rv2711, TB
DRB1_1501	96	VHAEACRWEHVMSSEDEV	ACRWEHVMS	0.1191	13786.2	50.00	Rv2711, TB



DRB1_1501	195	TVETTPGGGVTVIVIP	TPGGGVTI	0.1184	13890.4	50.00	Rv2711, TB
DRB1_1501	13	TIYDLEEEGVTPPLRA	DLEEEGVTP	0.1158	14277.1	50.00	Rv2711, TB
DRB1_1501	142	EPGADDANLVRLTEL	ANLVRLTEL	0.1124	14820.3	50.00	Rv2711, TB
DRB1_1501	194	VTVETTPGGGVTVIVI	TPGGGVTI	0.1103	15154.8	50.00	Rv2711, TB
DRB1_1501	135	VELGVGPEPGADDAN	ELGVGPEPG	0.1096	15267.4	50.00	Rv2711, TB
DRB1_1501	136	ELGVGPEPGADDANL	ELGVGPEPG	0.0903	18815.8	50.00	Rv2711, TB
DRB1_1501	137	LGVGPEPGADDANLV	LGVGPEPGA	0.0614	25727.2	50.00	Rv2711, TB
DRB1_1501	140	GPEPGADDANLVRLT	DDANLVRLT	0.0612	25784.3	50.00	Rv2711, TB
DRB1_1501	139	VGPEPGADDANLVRL	ADDANLVRL	0.0555	27433.7	50.00	Rv2711, TB
DRB1_1501	138	GVGPEPGADDANLVR	GADDANLVR	0.0534	28059.4	50.00	Rv2711, TB
DRB1_1501	141	PEPGADDANLVRLTE	DDANLVRLT	0.0531	28149.1	50.00	Rv2711, TB

Allele: DRB1\_1501. Number of high binders 12. Number of weak binders 34. Number of peptides 216

Allele	pos	peptide	core	l-log50k(aff)	affinity(nM)	Bind Level	%Random	Identity
DRB3_0101	121	NPTTSPFGNPIPLGLV	FGNPIPLGLV	0.4869	257.7	WB	4.00	Rv2711, TB
DRB3_0101	122	PTTSPFGNPIPLGLVE	FGNPIPLGLV	0.4699	309.7	WB	4.00	Rv2711, TB
DRB3_0101	123	TTSPFGNPIPLGLVEL	FGNPIPLGLV	0.4605	343.0	WB	4.00	Rv2711, TB
DRB3_0101	169	LTEHVQGDIDLITRL	VQGDIDLIT	0.4386	434.6	WB	8.00	Rv2711, TB
DRB3_0101	124	TSPFGNPIPLGLVELG	FGNPIPLGLV	0.4243	507.3		8.00	Rv2711, TB
DRB3_0101	167	RQLTEHVQGDIDLIT	VQGDIDLIT	0.4211	525.3		8.00	Rv2711, TB
DRB3_0101	170	TEHVQGDIDLITRLK	VQGDIDLIT	0.4131	572.5		8.00	Rv2711, TB
DRB3_0101	168	QLTEHVQGDIDLITR	VQGDIDLIT	0.4055	621.8		8.00	Rv2711, TB
DRB3_0101	125	SPFGNPIPLGLVELGV	FGNPIPLGLV	0.4033	636.4		8.00	Rv2711, TB
DRB3_0101	0	MNELVDTTEMYLRTI	ELVDTTEMY	0.3977	676.2		8.00	Rv2711, TB
DRB3_0101	171	EHVQGDIDLITRLKD	VQGDIDLIT	0.3893	740.8		8.00	Rv2711, TB
DRB3_0101	126	PFGNPIPLGLVELGVG	FGNPIPLGLV	0.3833	790.0		8.00	Rv2711, TB
DRB3_0101	9	MYLRTIYDLEEEGV	YDLEEEGV	0.3818	803.1		8.00	Rv2711, TB
DRB3_0101	1	NELVDTTEMYLRTIY	ELVDTTEMY	0.3768	847.8		16.00	Rv2711, TB
DRB3_0101	172	HVQGDIDLITRLKDA	VQGDIDLIT	0.3707	905.7		16.00	Rv2711, TB
DRB3_0101	127	FGNPIPLGLVELGVGP	FGNPIPLGLV	0.3643	970.8		16.00	Rv2711, TB
DRB3_0101	78	HRLAERLLVDVIGLP	LLVDVIGLP	0.3582	1037.4		16.00	Rv2711, TB
DRB3_0101	2	ELVDTTEMYLRTIYD	ELVDTTEMY	0.3519	1110.1		16.00	Rv2711, TB
DRB3_0101	3	LVDTTEMYLRTIYDL	MYLRTIYDL	0.3461	1181.9		16.00	Rv2711, TB
DRB3_0101	4	VDTTEMYLRTIYDLE	MYLRTIYDL	0.3338	1350.2		16.00	Rv2711, TB
DRB3_0101	41	SQTVSRMERDGLLRV	MERDGLLRV	0.3125	1700.3		16.00	Rv2711, TB
DRB3_0101	5	DTTEMYLRTIYDLEE	MYLRTIYDL	0.3054	1835.2		16.00	Rv2711, TB
DRB3_0101	42	QTVSRMERDGLLRVA	MERDGLLRV	0.3039	1865.6		16.00	Rv2711, TB
DRB3_0101	79	LRAERLLVDVIGLPW	LLVDVIGLP	0.3033	1877.5		16.00	Rv2711, TB
DRB3_0101	10	YLRTIYDLEEEGVTP	YDLEEEGV	0.2983	1982.6		16.00	Rv2711, TB
DRB3_0101	166	VRQLTEHVQGDIDL	HVQGDIDL	0.2927	2107.0		32.00	Rv2711, TB
DRB3_0101	43	TVSRMERDGLLRVAG	MERDGLLRV	0.2902	2165.0		32.00	Rv2711, TB
DRB3_0101	6	TTEMYLRTIYDLEEE	MYLRTIYDL	0.2867	2248.3		32.00	Rv2711, TB
DRB3_0101	11	LRTIYDLEEEGVTP	YDLEEEGV	0.2860	2266.2		32.00	Rv2711, TB
DRB3_0101	7	TEMYLRTIYDLEEEG	MYLRTIYDL	0.2853	2281.6		32.00	Rv2711, TB
DRB3_0101	44	VSRMERDGLLRVAGD	MERDGLLRV	0.2843	2308.0		32.00	Rv2711, TB
DRB3_0101	173	VQGDIDLITRLKDAE	VQGDIDLIT	0.2794	2433.5		32.00	Rv2711, TB
DRB3_0101	80	LAERLLVDVIGLPW	LLVDVIGLP	0.2771	2494.4		32.00	Rv2711, TB
DRB3_0101	139	VGPEPGADDANLVRL	PGADDANLV	0.2749	2555.3		32.00	Rv2711, TB
DRB3_0101	140	GPEPGADDANLVRLT	PGADDANLV	0.2744	2568.1		32.00	Rv2711, TB
DRB3_0101	8	EMYLRTIYDLEEEGV	MYLRTIYDL	0.2713	2656.2		32.00	Rv2711, TB
DRB3_0101	141	PEPGADDANLVRLTE	PGADDANLV	0.2706	2674.8		32.00	Rv2711, TB
DRB3_0101	137	LGVGPEPGADDANLV	PGADDANLV	0.2692	2715.5		32.00	Rv2711, TB
DRB3_0101	142	EPGADDANLVRLTEL	PGADDANLV	0.2678	2757.6		32.00	Rv2711, TB
DRB3_0101	143	PGADDANLVRLTELP	PGADDANLV	0.2674	2769.5		32.00	Rv2711, TB
DRB3_0101	72	IAVMRKHRLAERLLV	HRLAERLLV	0.2640	2873.2		32.00	Rv2711, TB
DRB3_0101	138	GVGPEPGADDANLVR	PGADDANLV	0.2637	2882.3		32.00	Rv2711, TB
DRB3_0101	45	SRMERDGLLRVAGDR	MERDGLLRV	0.2607	2977.1		32.00	Rv2711, TB
DRB3_0101	12	RTIYDLEEEGVTP	YDLEEEGV	0.2579	3070.8		32.00	Rv2711, TB
DRB3_0101	101	CRWEHVMSDVERRL	MSEDVERRL	0.2500	3343.4		32.00	Rv2711, TB
DRB3_0101	47	MERDGLLRVAGDRHL	MERDGLLRV	0.2476	3430.1		32.00	Rv2711, TB
DRB3_0101	81	AERLLVDVIGLPWEE	LLVDVIGLP	0.2448	3537.1		32.00	Rv2711, TB
DRB3_0101	46	RMERDGLLRVAGDRH	MERDGLLRV	0.2420	3647.7		32.00	Rv2711, TB
DRB3_0101	13	TIYDLEEEGVTPPLRA	YDLEEEGV	0.2370	3846.7		32.00	Rv2711, TB
DRB3_0101	210	GHENVTLPHEMAHAV	LPHEMAHAV	0.2363	3877.8		32.00	Rv2711, TB
DRB3_0101	102	RWEHVMSDVERRLV	MSEDVERRL	0.2359	3895.0		32.00	Rv2711, TB
DRB3_0101	73	AVMRKHRLAERLLVD	HRLAERLLV	0.2346	3949.1		32.00	Rv2711, TB
DRB3_0101	212	ENVTLPHEMAHAVKV	LPHEMAHAV	0.2333	4004.8		32.00	Rv2711, TB
DRB3_0101	77	KHRLAERLLVDVIGL	HRLAERLLV	0.2307	4121.4		32.00	Rv2711, TB
DRB3_0101	97	HAEACRWEHVMSD	WEHVMSD	0.2297	4165.9		32.00	Rv2711, TB
DRB3_0101	74	VMRKHRLAERLLVDV	HRLAERLLV	0.2256	4353.5		32.00	Rv2711, TB
DRB3_0101	211	HENVTLPHEMAHAVK	LPHEMAHAV	0.2255	4359.3		32.00	Rv2711, TB
DRB3_0101	103	WEHVMSDVERRLVK	MSEDVERRL	0.2255	4360.4		32.00	Rv2711, TB

DRB3_0101	83	RLLDVIGLPWEEVH	LLVDVIGLP	0.2249	4385.7	32.00	Rv2711, TB
DRB3_0101	75	MRKHRLAERLLVDVI	HRLAERLLV	0.2204	4606.5	32.00	Rv2711, TB
DRB3_0101	82	ERLLVDVIGLPWEEV	LLVDVIGLP	0.2203	4613.4	32.00	Rv2711, TB
DRB3_0101	98	AEACRWEHVMSSEDVE	WEHVMSEDV	0.2167	4795.7	32.00	Rv2711, TB
DRB3_0101	14	IYDLEEEGVTPLRAR	YDLEEEGVT	0.2156	4850.7	32.00	Rv2711, TB
DRB3_0101	213	NVTLPHEMAHAVKVE	LPHEMAHAV	0.2120	5043.6	32.00	Rv2711, TB
DRB3_0101	104	HVMSSEDVERRLVKV	MSEDVERRL	0.2097	5168.8	32.00	Rv2711, TB
DRB3_0101	105	HVMSSEDVERRLVKVL	MSEDVERRL	0.2064	5359.0	50.00	Rv2711, TB
DRB3_0101	99	EACRWEHVMSSEDVER	WEHVMSEDV	0.2055	5412.7	50.00	Rv2711, TB
DRB3_0101	76	RKHRLAERLLVDVIG	HRLAERLLV	0.2051	5434.6	50.00	Rv2711, TB
DRB3_0101	49	RDGLLRVAGDRHLEL	VAGDRHLEL	0.2036	5523.9	50.00	Rv2711, TB
DRB3_0101	106	VMSDEVERRLVKVLN	MSEDVERRL	0.1995	5772.0	50.00	Rv2711, TB
DRB3_0101	50	DGLLRVAGDRHLELT	VAGDRHLEL	0.1960	5999.1	50.00	Rv2711, TB
DRB3_0101	84	LLVDVIGLPWEEVHA	LLVDVIGLP	0.1939	6138.3	50.00	Rv2711, TB
DRB3_0101	100	ACRWEHVMSSEDVERR	CRWEHVMS	0.1931	6187.3	50.00	Rv2711, TB
DRB3_0101	214	VTLPHEMAHAVKVEK	LPHEMAHAV	0.1916	6290.2	50.00	Rv2711, TB
DRB3_0101	51	GLLRVAGDRHLELTE	VAGDRHLEL	0.1838	6843.2	50.00	Rv2711, TB
DRB3_0101	15	YDLEEEGVTPLRARI	YDLEEEGVT	0.1832	6884.8	50.00	Rv2711, TB
DRB3_0101	107	MSEDVERRLVKVLNN	MSEDVERRL	0.1810	7054.6	50.00	Rv2711, TB
DRB3_0101	215	TLPHEMAHAVKVEKV	LPHEMAHAV	0.1805	7095.8	50.00	Rv2711, TB
DRB3_0101	39	TVSQTVSRMERDGLL	SRMERDGLL	0.1756	7480.6	50.00	Rv2711, TB
DRB3_0101	95	EVHAEACRWEHVMS	CRWEHVMS	0.1720	7773.6	50.00	Rv2711, TB
DRB3_0101	40	VSQTVSRMERDGLLR	SRMERDGLL	0.1705	7907.3	50.00	Rv2711, TB
DRB3_0101	96	VHAEACRWEHVMS	CRWEHVMS	0.1690	8031.6	50.00	Rv2711, TB
DRB3_0101	52	LLRVAGDRHLELTEK	VAGDRHLEL	0.1677	8142.7	50.00	Rv2711, TB
DRB3_0101	175	GRIDLITRLKDGAVV	GDIDLITRL	0.1633	8540.6	50.00	Rv2711, TB
DRB3_0101	174	QGIDLITRLKDGAV	GDIDLITRL	0.1591	8936.1	50.00	Rv2711, TB
DRB3_0101	53	LRVAGDRHLELTEKG	VAGDRHLEL	0.1477	10113.2	50.00	Rv2711, TB
DRB3_0101	206	IVIPGHENVTLPH	VIPGHENV	0.1354	11558.4	50.00	Rv2711, TB
DRB3_0101	113	RRLVKVLNNPTTSPF	LNNPTTSPF	0.1350	11601.3	50.00	Rv2711, TB
DRB3_0101	54	RVAGDRHLELTEKGR	VAGDRHLEL	0.1312	12094.9	50.00	Rv2711, TB
DRB3_0101	156	LPAGSPVAVVVRQLT	VAVVVRQLT	0.1289	12394.9	50.00	Rv2711, TB
DRB3_0101	207	VIPGHENVTLPH	VIPGHENV	0.1273	12614.0	50.00	Rv2711, TB
DRB3_0101	55	VAGDRHLELTEKGRA	VAGDRHLEL	0.1273	12615.1	50.00	Rv2711, TB
DRB3_0101	159	GSPVAVVVRQLTEHV	VAVVVRQLT	0.1261	12782.8	50.00	Rv2711, TB
DRB3_0101	114	RLVKVLNNPTTSPFG	LNNPTTSPF	0.1234	13161.8	50.00	Rv2711, TB
DRB3_0101	190	PNARVTVETTPGGGV	VETTPGGGV	0.1194	13742.9	50.00	Rv2711, TB
DRB3_0101	182	RLKDAGVVPNARVT	VVPNARVT	0.1192	13768.8	50.00	Rv2711, TB
DRB3_0101	160	SPVAVVVRQLTEHVQ	VAVVVRQLT	0.1189	13815.5	50.00	Rv2711, TB
DRB3_0101	158	AGSPVAVVVRQLTEH	VAVVVRQLT	0.1186	13858.1	50.00	Rv2711, TB
DRB3_0101	27	ARLAERLDQSGPTVS	ERLDQSGPT	0.1179	13969.8	50.00	Rv2711, TB
DRB3_0101	94	EEVHAEACRWEHVMS	HAEACRWEH	0.1166	14167.3	50.00	Rv2711, TB
DRB3_0101	66	KGRALAIAMRKHRL	LAIAMMRKH	0.1151	14396.7	50.00	Rv2711, TB
DRB3_0101	115	LVKVLNNPTTSPFGN	LNNPTTSPF	0.1149	14430.6	50.00	Rv2711, TB
DRB3_0101	157	PAGSPVAVVVRQLTE	VAVVVRQLT	0.1146	14475.9	50.00	Rv2711, TB
DRB3_0101	26	RARIAERLDQSGPTV	ERLDQSGPT	0.1138	14592.9	50.00	Rv2711, TB
DRB3_0101	25	LRARIAERLDQSGPT	ERLDQSGPT	0.1137	14613.2	50.00	Rv2711, TB
DRB3_0101	85	LVVIGLPWEEVHAE	IGLPWEEVH	0.1130	14725.7	50.00	Rv2711, TB
DRB3_0101	87	DVIGLPWEEVHAEAC	LPWEEVHAE	0.1121	14868.0	50.00	Rv2711, TB
DRB3_0101	161	PVAVVVRQLTEHVQG	VAVVVRQLT	0.1120	14883.6	50.00	Rv2711, TB
DRB3_0101	64	TEKGRALAIAMMRKH	LAIAMMRKH	0.1119	14894.3	50.00	Rv2711, TB
DRB3_0101	202	GGVTIVIPGHENVTL	VIPGHENV	0.1112	15007.2	50.00	Rv2711, TB
DRB3_0101	183	LKDAGVVPNARVTVE	VVPNARVT	0.1110	15040.8	50.00	Rv2711, TB
DRB3_0101	28	RIAERLDQSGPTVSQ	ERLDQSGPT	0.1093	15329.7	50.00	Rv2711, TB
DRB3_0101	93	WEVHAEACRWEHVMS	EACRWEHV	0.1092	15338.9	50.00	Rv2711, TB
DRB3_0101	201	GGVTIVIPGHENVTL	VIPGHENV	0.1092	15346.2	50.00	Rv2711, TB
DRB3_0101	191	NARVTVETTPGGGV	VETTPGGGV	0.1077	15591.8	50.00	Rv2711, TB
DRB3_0101	162	VAVVVRQLTEHVQGD	VAVVVRQLT	0.1075	15626.1	50.00	Rv2711, TB
DRB3_0101	86	VDVIGLPWEEVHAEA	LPWEEVHAE	0.1071	15684.8	50.00	Rv2711, TB
DRB3_0101	203	GVTIVIPGHENVTL	VIPGHENV	0.1062	15852.7	50.00	Rv2711, TB
DRB3_0101	88	VIGLPWEEVHAEACR	IGLPWEEVH	0.1061	15868.9	50.00	Rv2711, TB
DRB3_0101	184	KDAGVVPNARVTVET	VVPNARVT	0.1058	15912.2	50.00	Rv2711, TB
DRB3_0101	48	ERDGLLRVAGDRHLE	LRVAGDRHL	0.1053	15996.2	50.00	Rv2711, TB
DRB3_0101	67	GRALAIAMMRKHRLA	LAIAMMRKH	0.1045	16135.7	50.00	Rv2711, TB
DRB3_0101	208	IPGHENVTLPH	ENVTLPH	0.1041	16219.1	50.00	Rv2711, TB
DRB3_0101	204	VTVIPGHENVTLPH	VIPGHENV	0.1040	16226.3	50.00	Rv2711, TB
DRB3_0101	116	VKVLNNPTTSPFGNP	LNNPTTSPF	0.1035	16321.1	50.00	Rv2711, TB
DRB3_0101	165	VVRQLTEHVQGDIDL	LTEHVQGDI	0.1026	16481.1	50.00	Rv2711, TB
DRB3_0101	69	ALAIAMMRKHRLAER	LAIAMMRKH	0.1024	16508.4	50.00	Rv2711, TB
DRB3_0101	185	DAGVVPNARVTVETT	VVPNARVT	0.1018	16621.7	50.00	Rv2711, TB
DRB3_0101	164	VVRQLTEHVQGDID	LTEHVQGDI	0.1013	16702.1	50.00	Rv2711, TB
DRB3_0101	163	AVVVRQLTEHVQGDI	LTEHVQGDI	0.1008	16798.9	50.00	Rv2711, TB
DRB3_0101	117	KVLNNPTTSPFGNPI	LNNPTTSPF	0.1007	16812.5	50.00	Rv2711, TB
DRB3_0101	205	TIVIPGHENVTLPH	VIPGHENV	0.1002	16904.7	50.00	Rv2711, TB
DRB3_0101	91	LPWEEVHAEACRWEH	LPWEEVHAE	0.1000	16946.8	50.00	Rv2711, TB
DRB3_0101	89	IGLPWEEVHAEACRW	IGLPWEEVH	0.1000	16955.2	50.00	Rv2711, TB
DRB3_0101	70	LAIAMMRKHRLAERL	LAIAMMRKH	0.0998	16990.1	50.00	Rv2711, TB

DRB3_0101	188	VVPNARVTVETTPGG	VVPNARVTV	0.0995	17042.2	50.00	Rv2711, TB
DRB3_0101	65	EKGRALAIAMVRKHR	LAIAMVRKH	0.0994	17054.4	50.00	Rv2711, TB
DRB3_0101	68	RALAIAMVRKHLAE	LAIAMVRKH	0.0987	17182.9	50.00	Rv2711, TB
DRB3_0101	186	AGVVPNARVTVETTP	VVPNARVTV	0.0987	17193.2	50.00	Rv2711, TB
DRB3_0101	118	VLNNPTTSPFGNPIP	LNNPTTSPF	0.0965	17592.1	50.00	Rv2711, TB
DRB3_0101	176	DIDLITRLKDGAVVP	TRLKDGAVV	0.0963	17635.4	50.00	Rv2711, TB
DRB3_0101	92	PWEEVHAEACRWEHV	VHAEACRWE	0.0961	17676.2	50.00	Rv2711, TB
DRB3_0101	193	RVTVETTPGGGVTV	VETTPGGGV	0.0960	17695.5	50.00	Rv2711, TB
DRB3_0101	192	ARVTVETTPGGGVTV	VETTPGGGV	0.0949	17907.8	50.00	Rv2711, TB
DRB3_0101	60	HLELTEKGRALAIIV	KGRALAIIV	0.0948	17932.6	50.00	Rv2711, TB
DRB3_0101	194	VTVETTPGGGVTVIV	VETTPGGGV	0.0947	17939.0	50.00	Rv2711, TB
DRB3_0101	177	IDLITRLKDGAVVVP	TRLKDGAVV	0.0947	17945.2	50.00	Rv2711, TB
DRB3_0101	30	AERLDQSGPTVSQTV	ERLDQSGPT	0.0942	18041.0	50.00	Rv2711, TB
DRB3_0101	178	DLITRLKDGAVVVPNA	TRLKDGAVV	0.0939	18108.9	50.00	Rv2711, TB
DRB3_0101	119	LNNPTTSPFGNPIPG	LNNPTTSPF	0.0928	18324.7	50.00	Rv2711, TB
DRB3_0101	61	LELTEKGRALAIIVM	KGRALAIIV	0.0924	18389.5	50.00	Rv2711, TB
DRB3_0101	209	PGHENVTLPHEMAHA	ENVTLPHEM	0.0923	18420.9	50.00	Rv2711, TB
DRB3_0101	29	IAERLDQSGPTVSQTV	ERLDQSGPT	0.0913	18623.5	50.00	Rv2711, TB
DRB3_0101	187	GVVPNARVTVETTPG	VVPNARVTV	0.0907	18735.3	50.00	Rv2711, TB
DRB3_0101	90	GLPWEEVHAEACRWE	VHAEACRWE	0.0895	18991.4	50.00	Rv2711, TB
DRB3_0101	179	LITRLKDGAVVVPNAR	TRLKDGAVV	0.0889	19102.9	50.00	Rv2711, TB
DRB3_0101	151	VRLTELPAGSPVAVV	LPAGSPVAV	0.0886	19163.2	50.00	Rv2711, TB
DRB3_0101	144	GADDANLVRLELTPA	GADDANLVR	0.0868	19543.2	50.00	Rv2711, TB
DRB3_0101	146	DDANLVRLELTPAGS	VRLTELPAG	0.0865	19620.8	50.00	Rv2711, TB
DRB3_0101	180	ITRLKDGAVVVPNARV	TRLKDGAVV	0.0856	19813.0	50.00	Rv2711, TB
DRB3_0101	145	ADDANLVRLELTPAG	VRLTELPAG	0.0849	19955.4	50.00	Rv2711, TB
DRB3_0101	195	TVETTPGGGVTVIVIP	VETTPGGGV	0.0836	20226.5	50.00	Rv2711, TB
DRB3_0101	31	ERLDQSGPTVSQTVS	ERLDQSGPT	0.0835	20260.0	50.00	Rv2711, TB
DRB3_0101	62	ELTEKGRALAIAMVR	KGRALAIIV	0.0825	20470.4	50.00	Rv2711, TB
DRB3_0101	71	AIAMVRKHLRAERLL	IAMVRKHRL	0.0824	20494.3	50.00	Rv2711, TB
DRB3_0101	150	LVRLELTPAGSPVAV	LPAGSPVAV	0.0818	20639.2	50.00	Rv2711, TB
DRB3_0101	196	VETTPGGGVTVIVIPG	VETTPGGGV	0.0815	20708.8	50.00	Rv2711, TB
DRB3_0101	109	EDVERRLVKVLNNPT	LVKVLNNPT	0.0791	21246.0	50.00	Rv2711, TB
DRB3_0101	110	VERRLVKVLNNPTT	LVKVLNNPT	0.0788	21324.7	50.00	Rv2711, TB
DRB3_0101	111	VERRLVKVLNNPTTS	LVKVLNNPT	0.0781	21475.0	50.00	Rv2711, TB
DRB3_0101	112	ERRLVKVLNNPTTSP	LVKVLNNPT	0.0779	21520.8	50.00	Rv2711, TB
DRB3_0101	181	TRLKDGAVVVPNARVT	TRLKDGAVV	0.0777	21567.0	50.00	Rv2711, TB
DRB3_0101	148	ANLVRLELTPAGSPV	VRLTELPAG	0.0771	21702.3	50.00	Rv2711, TB
DRB3_0101	152	RLELTPAGSPVAVVV	PAGSPVAVV	0.0771	21714.3	50.00	Rv2711, TB
DRB3_0101	63	LTEKGRALAIAMVRK	KGRALAIIV	0.0765	21852.6	50.00	Rv2711, TB
DRB3_0101	147	DANLVRLELTPAGSP	VRLTELPAG	0.0754	22113.5	50.00	Rv2711, TB
DRB3_0101	58	DRHLELTEKGRALAI	TEKGRALAI	0.0731	22670.8	50.00	Rv2711, TB
DRB3_0101	133	GLVELGVPPEPGADD	LGVGPEPGA	0.0707	23274.5	50.00	Rv2711, TB
DRB3_0101	153	LTELPAGSPVAVVVR	PAGSPVAVV	0.0705	23318.8	50.00	Rv2711, TB
DRB3_0101	200	PGGGVTIVIPGHENV	TIVIPGHEN	0.0702	23385.8	50.00	Rv2711, TB
DRB3_0101	59	RHLELTEKGRALAIIV	TEKGRALAI	0.0688	23751.7	50.00	Rv2711, TB
DRB3_0101	149	NLVRLELTPAGSPVA	VRLTELPAG	0.0686	23800.1	50.00	Rv2711, TB
DRB3_0101	131	IPGLVELGVPPEPGA	LGVGPEPGA	0.0686	23800.6	50.00	Rv2711, TB
DRB3_0101	155	ELPAGSPVAVVVRQL	PAGSPVAVV	0.0666	24315.7	50.00	Rv2711, TB
DRB3_0101	199	TPGGGVTVIVIPGHEN	TIVIPGHEN	0.0658	24525.5	50.00	Rv2711, TB
DRB3_0101	189	VPNARVTVETTPGGG	VTVETTPGG	0.0658	24533.7	50.00	Rv2711, TB
DRB3_0101	22	VTPLRARIAERLDQS	RIAERLDQS	0.0657	24566.7	50.00	Rv2711, TB
DRB3_0101	134	LVELGVPPEPGADDA	LGVGPEPGA	0.0655	24602.6	50.00	Rv2711, TB
DRB3_0101	154	TELPAGSPVAVVVRQ	LPAGSPVAV	0.0652	24706.1	50.00	Rv2711, TB
DRB3_0101	33	LDQSGPTVSQTVSRM	SGPTVSQTV	0.0643	24945.1	50.00	Rv2711, TB
DRB3_0101	23	TPLRARIAERLDQSG	RIAERLDQS	0.0640	25027.3	50.00	Rv2711, TB
DRB3_0101	32	RLDQSGPTVSQTVSR	SGPTVSQTV	0.0638	25073.7	50.00	Rv2711, TB
DRB3_0101	132	PGLVELGVPPEPGAD	LGVGPEPGA	0.0635	25154.6	50.00	Rv2711, TB
DRB3_0101	24	PLRARIAERLDQSGP	RIAERLDQS	0.0630	25287.0	50.00	Rv2711, TB
DRB3_0101	108	SEVERRLVKVLNNNP	VERRLVKVL	0.0625	25428.0	50.00	Rv2711, TB
DRB3_0101	135	VELGVPPEPGADDAN	LGVGPEPGA	0.0612	25798.0	50.00	Rv2711, TB
DRB3_0101	56	AGDRHLELTEKGRAL	LELTEKGRA	0.0609	25875.1	50.00	Rv2711, TB
DRB3_0101	136	ELGVPPEPGADDANL	LGVGPEPGA	0.0605	25971.6	50.00	Rv2711, TB
DRB3_0101	34	DQSGPTVSQTVSRME	SGPTVSQTV	0.0589	26435.7	50.00	Rv2711, TB
DRB3_0101	35	QSGPTVSQTVSRMER	SGPTVSQTV	0.0551	27550.4	50.00	Rv2711, TB
DRB3_0101	57	GDRHLELTEKGRALA	LELTEKGRA	0.0550	27581.1	50.00	Rv2711, TB
DRB3_0101	38	PTVSQTVSRMERDGL	VSRMERDGL	0.0530	28172.8	50.00	Rv2711, TB
DRB3_0101	36	SGPTVSQTVSRMERD	SGPTVSQTV	0.0517	28569.7	50.00	Rv2711, TB
DRB3_0101	16	LEEEGVTPLRARIA	LEEEGVTP	0.0500	29103.9	50.00	Rv2711, TB
DRB3_0101	19	EELGVTPLRARIAERL	LRARIAERL	0.0498	29162.2	50.00	Rv2711, TB
DRB3_0101	20	EGVTPLRARIAERLD	LRARIAERL	0.0479	29790.8	50.00	Rv2711, TB
DRB3_0101	17	LEEEGVTPLRARIAE	LEEEGVTP	0.0468	30143.9	50.00	Rv2711, TB
DRB3_0101	21	GVTPLRARIAERLDQ	LRARIAERL	0.0438	31118.5	50.00	Rv2711, TB
DRB3_0101	129	NPVPLVELGVPPEP	VELGVPPEP	0.0423	31623.9	50.00	Rv2711, TB
DRB3_0101	37	GPTVSQTVSRMERDGL	TVSQTVS	0.0404	32311.9	50.00	Rv2711, TB
DRB3_0101	197	ETTPGGGVTVIVIPGH	PGGGVTIVI	0.0403	32321.3	50.00	Rv2711, TB
DRB3_0101	198	TTTPGGGVTVIVIPGHE	PGGGVTIVI	0.0403	32344.4	50.00	Rv2711, TB

DRB3_0101	18	EEGVTPPLRARIAER	EGVTPPLRAR	0.0402	32354.5	50.00	Rv2711, TB
DRB3_0101	128	GNPIPGLVELGVGPE	IPGLVELGV	0.0388	32856.9	50.00	Rv2711, TB
DRB3_0101	130	PIPGLVELGVGPEPG	VELGVGPEP	0.0382	33072.0	50.00	Rv2711, TB
DRB3_0101	120	NNPTTSPFGNPPIGL	PFGNPIPGL	0.0369	33533.5	50.00	Rv2711, TB

Allele: DRB3\_0101. Number of high binders 0. Number of weak binders 4. Number of peptides 216

Allele	pos	peptide	core	1-log50k(aff)	affinity(nM)	Bind Level	%Random	Identity
DRB4_0101	161	PVAVVVRQLTEHVQG	VAVVVRQLT	0.7207	20.5	SB	1.00	Rv2711, TB
DRB4_0101	160	SPVAVVVRQLTEHVQ	VAVVVRQLT	0.7111	22.8	SB	2.00	Rv2711, TB
DRB4_0101	162	VAVVVRQLTEHVQGD	VAVVVRQLT	0.7064	24.0	SB	2.00	Rv2711, TB
DRB4_0101	159	AGSPVAVVVRQLTEHV	VAVVVRQLT	0.6945	27.3	SB	2.00	Rv2711, TB
DRB4_0101	158	GSPVAVVVRQLTEH	VAVVVRQLT	0.6606	39.4	SB	4.00	Rv2711, TB
DRB4_0101	157	PAGSPVAVVVRQLTE	VAVVVRQLT	0.6169	63.1	WB	8.00	Rv2711, TB
DRB4_0101	67	GRALAIAMVRKHLRLA	LAIAMVRKH	0.6056	71.3	WB	8.00	Rv2711, TB
DRB4_0101	66	KGRALAIAMVRKHRL	LAIAMVRKH	0.5983	78.9	WB	8.00	Rv2711, TB
DRB4_0101	68	RALAIAMVRKHLRLA	LAIAMVRKH	0.5811	93.0	WB	8.00	Rv2711, TB
DRB4_0101	156	LPAGSPVAVVVRQLT	VAVVVRQLT	0.5738	100.6	WB	8.00	Rv2711, TB
DRB4_0101	69	ALAIAMVRKHLRLAER	LAIAMVRKH	0.5737	100.7	WB	8.00	Rv2711, TB
DRB4_0101	163	AVVVRQLTEHVQGDID	AVVVRQLTE	0.5675	107.7	WB	16.00	Rv2711, TB
DRB4_0101	70	LAIAMVRKHLRLAERL	LAIAMVRKH	0.5633	112.8	WB	16.00	Rv2711, TB
DRB4_0101	65	EGRALAIAMVRKHRL	LAIAMVRKH	0.5561	121.9	WB	16.00	Rv2711, TB
DRB4_0101	71	AIAMVRKHLRLAERLL	IAAMVRKHRL	0.5539	124.8	WB	16.00	Rv2711, TB
DRB4_0101	111	VERRLVKVLNNPTTS	RRLVKVLNN	0.5344	154.2	WB	16.00	Rv2711, TB
DRB4_0101	164	VVVRQLTEHVQGDID	VRQLTEHVQ	0.5338	155.0	WB	16.00	Rv2711, TB
DRB4_0101	110	DVERRLVKVLNNPTT	RRLVKVLNN	0.5251	170.4	WB	16.00	Rv2711, TB
DRB4_0101	112	ERRLVKVLNNPTTSP	RRLVKVLNN	0.5250	170.5	WB	16.00	Rv2711, TB
DRB4_0101	72	IAAMVRKHLRLAERLLV	IAAMVRKHRL	0.5244	171.8	WB	16.00	Rv2711, TB
DRB4_0101	113	RRLVKVLNNPTTSPF	RRLVKVLNN	0.5147	190.7	WB	16.00	Rv2711, TB
DRB4_0101	64	TEKGRALAIAMVRKH	LAIAMVRKH	0.5145	191.1	WB	16.00	Rv2711, TB
DRB4_0101	51	GLLRVAGDRHLELTE	LLRVAGDRH	0.5101	200.5	WB	16.00	Rv2711, TB
DRB4_0101	50	DGLLRVAGDRHLELT	LLRVAGDRH	0.5017	219.4	WB	16.00	Rv2711, TB
DRB4_0101	175	GDIDLITRLKDGAVV	IDLITRLKD	0.5016	219.7	WB	16.00	Rv2711, TB
DRB4_0101	109	DVERRLVKVLNNPT	RRLVKVLNN	0.4979	228.7	WB	32.00	Rv2711, TB
DRB4_0101	176	DIDLITRLKDGAVVP	IDLITRLKD	0.4975	229.7	WB	32.00	Rv2711, TB
DRB4_0101	174	QGDIDLITRLKDGAV	IDLITRLKD	0.4904	247.9	WB	32.00	Rv2711, TB
DRB4_0101	49	RDGLLRVAGDRHLEL	LLRVAGDRH	0.4882	254.1	WB	32.00	Rv2711, TB
DRB4_0101	7	TEMYLRTIYDLEEEG	MYLRTIYDL	0.4850	263.0	WB	32.00	Rv2711, TB
DRB4_0101	48	ERDGLLRVAGDRHLE	LLRVAGDRH	0.4844	264.8	WB	32.00	Rv2711, TB
DRB4_0101	172	HVQGDIDLITRLKDA	IDLITRLKD	0.4843	265.0	WB	32.00	Rv2711, TB
DRB4_0101	173	VQGDIDLITRLKDAG	IDLITRLKD	0.4781	283.3	WB	32.00	Rv2711, TB
DRB4_0101	6	TTEMYLRTIYDLEEE	MYLRTIYDL	0.4773	285.9	WB	32.00	Rv2711, TB
DRB4_0101	47	MERDGLLRVAGDRHL	LLRVAGDRH	0.4756	291.3	WB	32.00	Rv2711, TB
DRB4_0101	5	DTTEMYLRTIYDLEE	TEMYLRTIY	0.4727	300.4	WB	32.00	Rv2711, TB
DRB4_0101	177	IDLITRLKDGAVVVPN	IDLITRLKD	0.4684	314.7	WB	32.00	Rv2711, TB
DRB4_0101	108	SEVERRLVKVLNNP	RRLVKVLNN	0.4655	325.0	WB	32.00	Rv2711, TB
DRB4_0101	171	EHVQGDIDLITRLKD	IDLITRLKD	0.4601	344.3	WB	32.00	Rv2711, TB
DRB4_0101	165	VVVRQLTEHVQGDID	VRQLTEHVQ	0.4562	359.2	WB	32.00	Rv2711, TB
DRB4_0101	4	VDTTEMYLRTIYDLE	MYLRTIYDL	0.4526	373.4	WB	32.00	Rv2711, TB
DRB4_0101	146	DDANLVRLTELPAGS	NLVRLTELP	0.4514	378.4	WB	32.00	Rv2711, TB
DRB4_0101	148	ANLVRLTELPAGSPV	NLVRLTELP	0.4486	389.8	WB	32.00	Rv2711, TB
DRB4_0101	46	MERDGLLRVAGDRH	LLRVAGDRH	0.4451	405.1	WB	32.00	Rv2711, TB
DRB4_0101	63	LTEKGRALAIAMVRK	GRALAIAMV	0.4450	405.2	WB	32.00	Rv2711, TB
DRB4_0101	107	MSEDVERRLVKVLNN	RRLVKVLNN	0.4421	418.3	WB	32.00	Rv2711, TB
DRB4_0101	145	ADDANLVRLTELPAG	NLVRLTELP	0.4397	429.4	WB	32.00	Rv2711, TB
DRB4_0101	147	DANLVRLTELPAGSP	NLVRLTELP	0.4387	433.8	WB	32.00	Rv2711, TB
DRB4_0101	77	KHLRLAERLLVDVIGL	RLLVDVIGL	0.4375	439.8	WB	32.00	Rv2711, TB
DRB4_0101	52	LLRVAGDRHLELLETEK	LLRVAGDRH	0.4331	461.0	WB	32.00	Rv2711, TB
DRB4_0101	3	LVDTTEMYLRTIYDL	MYLRTIYDL	0.4300	476.7	WB	32.00	Rv2711, TB
DRB4_0101	144	GADDANLVRLTELPA	NLVRLTELP	0.4288	483.3	WB	32.00	Rv2711, TB
DRB4_0101	73	AVMRKHLRLAERLLVD	AVMRKHLRLA	0.4261	497.5	WB	32.00	Rv2711, TB
DRB4_0101	78	HRLAERLLVDVIGLP	RLLVDVIGL	0.4161	554.2	32.00	32.00	Rv2711, TB
DRB4_0101	81	AERLLVDVIGLPWEE	RLLVDVIGL	0.4160	555.0	32.00	32.00	Rv2711, TB
DRB4_0101	80	LAERLLVDVIGLPWE	RLLVDVIGL	0.4121	578.8	32.00	32.00	Rv2711, TB
DRB4_0101	82	ERLLVDVIGLPWEEV	RLLVDVIGL	0.4089	599.3	32.00	32.00	Rv2711, TB
DRB4_0101	114	RLVKVLNNPTTSPFG	RLVKVLNNP	0.4084	602.3	32.00	32.00	Rv2711, TB
DRB4_0101	8	EMYLRTIYDLEEEGV	MYLRTIYDL	0.4081	604.1	32.00	32.00	Rv2711, TB
DRB4_0101	62	ELTEKGRALAIAMVR	GRALAIAMV	0.4077	606.7	32.00	32.00	Rv2711, TB
DRB4_0101	83	RLLVDVIGLPWEEHV	RLLVDVIGL	0.4054	622.5	32.00	32.00	Rv2711, TB
DRB4_0101	97	HAEACRWEHVMSEDV	CRWEHVMSE	0.4053	623.2	32.00	32.00	Rv2711, TB
DRB4_0101	79	RLAERLLVDVIGLPW	RLLVDVIGL	0.4050	625.3	32.00	32.00	Rv2711, TB
DRB4_0101	40	VSQTVSRMERDGLLR	VSRMERDGL	0.3960	689.1	50.00	50.00	Rv2711, TB
DRB4_0101	143	PGADDANLVRLTELP	NLVRLTELP	0.3921	718.8	50.00	50.00	Rv2711, TB

DRB4_0101	39	TVSQTVSRMERDGLL	VSRMERDGL	0.3901	734.3	50.00	Rv2711, TB
DRB4_0101	76	RKHLAERLLVLDVIG	KHLAERLL	0.3883	748.8	50.00	Rv2711, TB
DRB4_0101	25	LRARIAERLDQSGPT	LRARIAERL	0.3860	767.4	50.00	Rv2711, TB
DRB4_0101	38	PTVSQTVSRMERDGL	VSRMERDGL	0.3846	779.0	50.00	Rv2711, TB
DRB4_0101	212	ENVTLPHEMAHAVKV	VTLPHEMAH	0.3831	792.1	50.00	Rv2711, TB
DRB4_0101	200	PGGGVTIVIPGHENV	VTIVIPGHE	0.3824	797.8	50.00	Rv2711, TB
DRB4_0101	210	GHENVTLPHEMAHAV	NVTLPHEMA	0.3802	817.1	50.00	Rv2711, TB
DRB4_0101	85	LVDVIGLPWEEVHAE	LVDVIGLPW	0.3800	819.4	50.00	Rv2711, TB
DRB4_0101	99	EACRWEHVMSEDVER	CRWEHMSE	0.3792	826.7	50.00	Rv2711, TB
DRB4_0101	213	NVTLPHEMAHAVKVE	VTLPHEMAH	0.3789	828.5	50.00	Rv2711, TB
DRB4_0101	41	SQTVSRMERDGLLRV	QTVSRMERD	0.3776	840.6	50.00	Rv2711, TB
DRB4_0101	24	PLRARIAERLDQSGP	LRARIAERL	0.3776	840.8	50.00	Rv2711, TB
DRB4_0101	166	VRQLTEHVQGDIDL	VRQLTEHVQ	0.3772	844.4	50.00	Rv2711, TB
DRB4_0101	98	AEACRWEHVMSEDVE	CRWEHMSE	0.3769	847.5	50.00	Rv2711, TB
DRB4_0101	9	MYLRTIYDLEEEGVT	MYLRTIYDL	0.3757	858.5	50.00	Rv2711, TB
DRB4_0101	211	HENVTLPHEMAHAVK	ENVTLPHEM	0.3743	871.4	50.00	Rv2711, TB
DRB4_0101	84	LVDVIGLPWEEVHA	LVDVIGLPW	0.3736	877.9	50.00	Rv2711, TB
DRB4_0101	75	MRKHLAERLLVLDVI	HRLAERLLV	0.3720	893.6	50.00	Rv2711, TB
DRB4_0101	53	LRVAGDRHLELTEKG	LRVAGDRHL	0.3714	899.0	50.00	Rv2711, TB
DRB4_0101	201	GGGVTIVIPGHENV	VTIVIPGHE	0.3713	900.3	50.00	Rv2711, TB
DRB4_0101	214	VTLPHEMAHAVKVEK	VTLPHEMAH	0.3703	909.8	50.00	Rv2711, TB
DRB4_0101	19	EEGVTPLRARIAERL	LRARIAERL	0.3701	911.9	50.00	Rv2711, TB
DRB4_0101	100	ACRWEHVMSEDVERR	CRWEHMSE	0.3669	944.2	50.00	Rv2711, TB
DRB4_0101	202	GGVTIVIPGHENVTL	VTIVIPGHE	0.3657	956.2	50.00	Rv2711, TB
DRB4_0101	170	TEHVQGDIDLITRLK	EHVQGDIDL	0.3655	958.7	50.00	Rv2711, TB
DRB4_0101	74	VMRKHLAERLLVDV	KHLAERLL	0.3643	971.2	50.00	Rv2711, TB
DRB4_0101	21	GVTPLRARIAERLDQ	LRARIAERL	0.3641	972.5	50.00	Rv2711, TB
DRB4_0101	87	DVIGLPWEEVHAEAC	DVIGLPWEE	0.3634	980.3	50.00	Rv2711, TB
DRB4_0101	209	PGHENVTLPHEMAHA	NVTLPHEMA	0.3628	986.2	50.00	Rv2711, TB
DRB4_0101	101	CRWEHVMSEDVERRL	CRWEHMSE	0.3612	1004.4	50.00	Rv2711, TB
DRB4_0101	86	VDVIGLPWEEVHAEA	DVIGLPWEE	0.3586	1032.8	50.00	Rv2711, TB
DRB4_0101	22	VTPLRARIAERLDQS	LRARIAERL	0.3514	1116.4	50.00	Rv2711, TB
DRB4_0101	96	VHAEACRWEHVMSED	CRWEHMSE	0.3509	1122.5	50.00	Rv2711, TB
DRB4_0101	2	ELVDTTTEMYLRTIYD	ELVDTTEMY	0.3505	1127.2	50.00	Rv2711, TB
DRB4_0101	23	TLRARIAERLDQSG	LRARIAERL	0.3504	1128.9	50.00	Rv2711, TB
DRB4_0101	20	EGVTPLRARIAERLD	LRARIAERL	0.3486	1150.8	50.00	Rv2711, TB
DRB4_0101	203	GVTIVIPGHENVTL	GVTIVIPGH	0.3446	1201.4	50.00	Rv2711, TB
DRB4_0101	149	NLVRLELTELPA	NLVRLELTEL	0.3440	1209.4	50.00	Rv2711, TB
DRB4_0101	199	TPGGGVTIVIPGHEN	VTIVIPGHE	0.3427	1225.8	50.00	Rv2711, TB
DRB4_0101	42	QTVSRMERDGLLRVA	VSRMERDGL	0.3395	1269.7	50.00	Rv2711, TB
DRB4_0101	61	LELTEKGRALAI	GRALAI	0.3389	1277.5	50.00	Rv2711, TB
DRB4_0101	55	VAGDRHLELTEKGRA	RHLELTEKG	0.3389	1278.3	50.00	Rv2711, TB
DRB4_0101	54	RVAGDRHLELTEKGR	RHLELTEKG	0.3357	1323.4	50.00	Rv2711, TB
DRB4_0101	208	IPGHENVTLPHEMAH	NVTLPHEMA	0.3346	1338.5	50.00	Rv2711, TB
DRB4_0101	198	TTPGGGVTIVIPGHE	VTIVIPGHE	0.3330	1362.8	50.00	Rv2711, TB
DRB4_0101	178	DLITRLKDA	DLITRLKDA	0.3328	1364.9	50.00	Rv2711, TB
DRB4_0101	95	EVHAEACRWEHVMSE	CRWEHMSE	0.3316	1382.2	50.00	Rv2711, TB
DRB4_0101	27	ARIAERLDQSGPTVS	ARIAERLDQ	0.3270	1453.7	50.00	Rv2711, TB
DRB4_0101	169	LTEHVQGDIDLITRL	EHVQGDIDL	0.3254	1479.2	50.00	Rv2711, TB
DRB4_0101	1	NELVDTTTEMYLRTIY	ELVDTTEMY	0.3245	1493.6	50.00	Rv2711, TB
DRB4_0101	88	VIGLPWEEVHAEACR	IGLPWEEVH	0.3242	1498.5	50.00	Rv2711, TB
DRB4_0101	26	RARIAERLDQSGPTV	ARIAERLDQ	0.3182	1599.1	50.00	Rv2711, TB
DRB4_0101	56	AGDRHLELTEKGRAL	RHLELTEKG	0.3168	1622.4	50.00	Rv2711, TB
DRB4_0101	115	LVKVLNNPTSPFGN	LVKVLNNPT	0.3137	1679.1	50.00	Rv2711, TB
DRB4_0101	45	SRMERDGLLRVAGDR	GLLRVAGDR	0.3135	1682.4	50.00	Rv2711, TB
DRB4_0101	37	GPTVSQTVSRMERD	VSQTVSRME	0.3123	1704.4	50.00	Rv2711, TB
DRB4_0101	130	IPGLVLELGVGPEPG	IPGLVLELGV	0.3111	1726.1	50.00	Rv2711, TB
DRB4_0101	57	GDRHLELTEKGRALA	RHLELTEKG	0.3111	1726.2	50.00	Rv2711, TB
DRB4_0101	102	RWEHVMSEDVERRLV	WEHVMSE	0.3103	1742.2	50.00	Rv2711, TB
DRB4_0101	18	EEEGVTPLRARIAER	VTPLRARIA	0.3097	1752.8	50.00	Rv2711, TB
DRB4_0101	204	VTIVIPGHENVTLPH	IVIPGHENV	0.3066	1812.5	50.00	Rv2711, TB
DRB4_0101	142	EPGADDANLVRLEL	ANLVRLEL	0.3065	1815.0	50.00	Rv2711, TB
DRB4_0101	168	QLTEHVQGDIDLITR	EHVQGDIDL	0.3064	1816.6	50.00	Rv2711, TB
DRB4_0101	167	RQLTEHVQGDIDLIT	EHVQGDIDL	0.3027	1890.5	50.00	Rv2711, TB
DRB4_0101	215	LPHEMAHAVKVEKV	AHAVKVEKV	0.2986	1975.5	50.00	Rv2711, TB
DRB4_0101	43	TVSRMERDGLLRVAG	VSRMERDGL	0.2979	1990.7	50.00	Rv2711, TB
DRB4_0101	106	VMSDVERRLLVKVLN	ERRLLVKVLN	0.2962	2027.2	50.00	Rv2711, TB
DRB4_0101	155	ELPAGSPVAVVVRQL	PVAVVVRQL	0.2961	2030.6	50.00	Rv2711, TB
DRB4_0101	131	IPGLVLELGVGPEPGA	IPGLVLELGV	0.2941	2073.9	50.00	Rv2711, TB
DRB4_0101	103	WEHVMSEDVERRLVK	WEHVMSE	0.2911	2143.0	50.00	Rv2711, TB
DRB4_0101	36	SGPTVSQTVSRMERD	TVSQTVSRM	0.2895	2180.3	50.00	Rv2711, TB
DRB4_0101	129	NPVIPGLVLELGVGPE	IPGLVLELGV	0.2890	2193.4	50.00	Rv2711, TB
DRB4_0101	17	LEEGVTPLRARIAER	VTPLRARIA	0.2862	2260.8	50.00	Rv2711, TB
DRB4_0101	89	IGLPWEEVHAEACRW	GLPWEEVHA	0.2859	2268.3	50.00	Rv2711, TB
DRB4_0101	44	VSRMERDGLLRVAGD	VSRMERDGL	0.2858	2270.1	50.00	Rv2711, TB
DRB4_0101	0	MNELVDTTTEMYLRTI	ELVDTTEMY	0.2852	2284.0	50.00	Rv2711, TB
DRB4_0101	128	GNPIPGLVLELGVGPE	IPGLVLELGV	0.2824	2355.1	50.00	Rv2711, TB

DRB4_0101	16	DLEEEGVTLPLRARIA	VTPLRARIA	0.2789	2446.3	50.00	Rv2711, TB
DRB4_0101	127	FGNPIPGLVELGVGP	IPGLVELGV	0.2788	2447.8	50.00	Rv2711, TB
DRB4_0101	206	IVIPGHENVTLPHM	IVIPGHENV	0.2742	2572.9	50.00	Rv2711, TB
DRB4_0101	28	IAERLDQSGPTVSQ	IAERLDQSG	0.2740	2579.6	50.00	Rv2711, TB
DRB4_0101	58	DRHLELTEKGRALAI	RHLELTEKG	0.2724	2625.4	50.00	Rv2711, TB
DRB4_0101	105	HVMSEDVERRLVKVL	VERRLVKVL	0.2711	2661.1	50.00	Rv2711, TB
DRB4_0101	186	AGVVPNARVTVETTP	AGVVPNARV	0.2688	2727.1	50.00	Rv2711, TB
DRB4_0101	207	IVIPGHENVTLPHEMA	NVTLPHEMA	0.2662	2806.7	50.00	Rv2711, TB
DRB4_0101	125	SPFGNPIPGLVELGV	IPGLVELGV	0.2625	2922.1	50.00	Rv2711, TB
DRB4_0101	10	YLRTIYDLEEEGVTP	LRTIYDLEE	0.2592	3027.9	50.00	Rv2711, TB
DRB4_0101	35	QSGPTVSQTVSRMER	PTVSQTVSR	0.2547	3178.3	50.00	Rv2711, TB
DRB4_0101	126	FGNPIPGLVELGVG	IPGLVELGV	0.2539	3206.1	50.00	Rv2711, TB
DRB4_0101	185	DAGVVPNARVTVETT	AGVVPNARV	0.2527	3248.9	50.00	Rv2711, TB
DRB4_0101	59	RHLELTEKGRALAI	RHLELTEKG	0.2507	3319.2	50.00	Rv2711, TB
DRB4_0101	197	ETTPGGGVTIVIPGH	GVTIVIPGH	0.2469	3456.9	50.00	Rv2711, TB
DRB4_0101	205	TVIPGHENVTLPHE	IVIPGHENV	0.2395	3745.3	50.00	Rv2711, TB
DRB4_0101	184	KDAGVVPNARVTVET	AGVVPNARV	0.2377	3819.3	50.00	Rv2711, TB
DRB4_0101	29	IAERLDQSGPTVSQT	IAERLDQSG	0.2361	3885.5	50.00	Rv2711, TB
DRB4_0101	11	LRTIYDLEEEGVTP	LRTIYDLEE	0.2346	3949.0	50.00	Rv2711, TB
DRB4_0101	60	HLELTEKGRALAI	EKGRALAI	0.2317	4076.0	50.00	Rv2711, TB
DRB4_0101	104	EHVMSEDVERRLVKV	EHVMSEDVE	0.2317	4077.4	50.00	Rv2711, TB
DRB4_0101	116	VKVLNNPTTSPFGNP	VKVLNNPTT	0.2315	4083.8	50.00	Rv2711, TB
DRB4_0101	179	LITRLKDAGVVPNAR	LITRLKDAG	0.2306	4122.7	50.00	Rv2711, TB
DRB4_0101	132	PGLVELGVGPEPGAD	VELGVGPEP	0.2270	4288.9	50.00	Rv2711, TB
DRB4_0101	90	GLPWEEVHAEACRWE	GLPWEEVHA	0.2247	4397.1	50.00	Rv2711, TB
DRB4_0101	183	LKDAGVVPNARVTVE	AGVVPNARV	0.2203	4611.2	50.00	Rv2711, TB
DRB4_0101	181	TRLKDAGVVPNARVT	AGVVPNARV	0.2191	4672.6	50.00	Rv2711, TB
DRB4_0101	180	ITRLKDAGVVPNARV	ITRLKDAGV	0.2185	4702.0	50.00	Rv2711, TB
DRB4_0101	34	DQSGPTVSQTVSRME	VSQTVSRME	0.2176	4747.9	50.00	Rv2711, TB
DRB4_0101	133	GLVELGVGPEPGADD	VELGVGPEP	0.2175	4754.4	50.00	Rv2711, TB
DRB4_0101	135	VELGVGPEPGADDAN	VELGVGPEP	0.2160	4831.1	50.00	Rv2711, TB
DRB4_0101	182	RLKDAGVVPNARVTV	AGVVPNARV	0.2146	4902.5	50.00	Rv2711, TB
DRB4_0101	190	PNARVTVETTPGGGV	ARVTVETTP	0.2145	4910.3	50.00	Rv2711, TB
DRB4_0101	150	LVRLTELPAGSPVAV	LVRLTELPA	0.2125	5014.5	50.00	Rv2711, TB
DRB4_0101	94	EVHAEACRWEHVMS	ACRWEHVMS	0.2078	5277.9	50.00	Rv2711, TB
DRB4_0101	189	VPNARVTVETTPGGG	ARVTVETTP	0.2077	5286.0	50.00	Rv2711, TB
DRB4_0101	134	LVELGVGPEPGADDA	VELGVGPEP	0.2009	5686.9	50.00	Rv2711, TB
DRB4_0101	187	GVVPNARVTVETTPG	ARVTVETTP	0.2002	5729.6	50.00	Rv2711, TB
DRB4_0101	33	LDQSGPTVSQTVSRM	GPTVSQTVS	0.1993	5790.0	50.00	Rv2711, TB
DRB4_0101	15	YDLEEEGVTLPLRARI	EEGVTLPLRA	0.1978	5881.9	50.00	Rv2711, TB
DRB4_0101	93	WEVHAEACRWEHVMS	HAEACRWEH	0.1941	6120.8	50.00	Rv2711, TB
DRB4_0101	191	NARVTVETTPGGGVT	ARVTVETTP	0.1939	6133.1	50.00	Rv2711, TB
DRB4_0101	188	VVPNARVTVETTPGG	ARVTVETTP	0.1930	6192.3	50.00	Rv2711, TB
DRB4_0101	124	TSPFGNPIPGLVELG	SPFGNPIPG	0.1896	6427.5	50.00	Rv2711, TB
DRB4_0101	31	ERLDQSGPTVSQTVS	ERLDQSGPT	0.1889	6473.7	50.00	Rv2711, TB
DRB4_0101	136	ELGVGPEPGADDANL	LGVGPEPGA	0.1844	6797.0	50.00	Rv2711, TB
DRB4_0101	92	PWEEVHAEACRWEHV	HAEACRWEH	0.1820	6975.9	50.00	Rv2711, TB
DRB4_0101	32	RLDQSGPTVSQTVSR	GPTVSQTVS	0.1819	6988.0	50.00	Rv2711, TB
DRB4_0101	30	AERLDQSGPTVSQTV	ERLDQSGPT	0.1805	7092.5	50.00	Rv2711, TB
DRB4_0101	91	LPWEEVHAEACRWEH	HAEACRWEH	0.1782	7271.5	50.00	Rv2711, TB
DRB4_0101	192	ARVTVETTPGGGVTI	ARVTVETTP	0.1730	7691.9	50.00	Rv2711, TB
DRB4_0101	196	VETTPGGGVTIVIPG	GGVTIVIPG	0.1706	7890.4	50.00	Rv2711, TB
DRB4_0101	12	RTIYDLEEEGVTLPLR	RTIYDLEEE	0.1688	8052.7	50.00	Rv2711, TB
DRB4_0101	13	TIYDLEEEGVTLPLRA	EEGVTLPLRA	0.1643	8452.3	50.00	Rv2711, TB
DRB4_0101	151	VRLTELPAGSPVAVV	VRLTELPAG	0.1594	8916.0	50.00	Rv2711, TB
DRB4_0101	154	TELPAGSPVAVVVRQ	SPVAVVVRQ	0.1568	9165.5	50.00	Rv2711, TB
DRB4_0101	141	PEPGADDANLVRLE	ADDANLVR	0.1495	9922.7	50.00	Rv2711, TB
DRB4_0101	152	RLELPAGSPVAVVV	RLELPAGS	0.1480	10076.5	50.00	Rv2711, TB
DRB4_0101	14	IYDLEEEGVTLPLRAR	EEGVTLPLRA	0.1476	10121.5	50.00	Rv2711, TB
DRB4_0101	123	TTPFGNPIPGLVEL	SPFGNPIPG	0.1434	10598.5	50.00	Rv2711, TB
DRB4_0101	140	GPEPGADDANLVRLE	ADDANLVR	0.1381	11221.8	50.00	Rv2711, TB
DRB4_0101	153	LTELPAGSPVAVVVR	ELPAGSPVA	0.1372	11332.1	50.00	Rv2711, TB
DRB4_0101	137	LGVGPEPGADDANLV	LGVGPEPGA	0.1279	12537.1	50.00	Rv2711, TB
DRB4_0101	122	PTTSPFGNPIPGLVE	SPFGNPIPG	0.1234	13162.1	50.00	Rv2711, TB
DRB4_0101	117	KVLNNPTTSPFGNPI	KVLNNPTTS	0.1218	13392.3	50.00	Rv2711, TB
DRB4_0101	193	RVTVETTPGGGVTIV	RVTVETTPG	0.1136	14634.0	50.00	Rv2711, TB
DRB4_0101	195	TVETTPGGGVTIVIP	GGGVTIVIP	0.1105	15124.7	50.00	Rv2711, TB
DRB4_0101	121	NPTTSPFGNPIPGLV	SPFGNPIPG	0.1094	15300.0	50.00	Rv2711, TB
DRB4_0101	119	LNNPTTSPFGNPIPG	LNNPTTSPF	0.0984	17246.1	50.00	Rv2711, TB
DRB4_0101	120	NNTTSPFGNPIPGL	SPFGNPIPG	0.0926	18365.0	50.00	Rv2711, TB
DRB4_0101	118	VLNNPTTSPFGNPIP	LNNPTTSPF	0.0911	18663.5	50.00	Rv2711, TB
DRB4_0101	194	VTVETTPGGGVTIVI	VTVETTPGG	0.0880	19294.7	50.00	Rv2711, TB
DRB4_0101	139	VGPEPGADDANLVR	ADDANLVR	0.0862	19677.9	50.00	Rv2711, TB
DRB4_0101	138	GVGPEPGADDANLVR	GPEPGADDA	0.0647	24837.4	50.00	Rv2711, TB

Allele: DRB4\_0101. Number of high binders 5. Number of weak binders 48. Number of peptides 216

Allele	pos	peptide	core	1-log50k(aff)	affinity(nM)	Bind	Level	%Random	Identity
DRB5_0101	67	GRALAIAVMRKHRLA	AIAVMRKHR	0.7447	15.8		SB	2.00	Rv2711, TB
DRB5_0101	67	KRALAIAVMRKHRLAE	AIAVMRKHR	0.7413	16.4		SB	2.00	Rv2711, TB
DRB5_0101	66	GRALAIAVMRKHRL	AIAVMRKHR	0.7316	18.2		SB	2.00	Rv2711, TB
DRB5_0101	113	RRLVKVLNNPTTSPF	LVKVLNNPT	0.7123	22.5		SB	4.00	Rv2711, TB
DRB5_0101	69	ALAIAVMRKHRLAER	AIAVMRKHR	0.7096	23.2		SB	4.00	Rv2711, TB
DRB5_0101	112	ERRLVKVLNNPTTSP	LVKVLNNPT	0.6997	25.8		SB	4.00	Rv2711, TB
DRB5_0101	70	LAIAVMRKHRLAERL	AIAVMRKHR	0.6941	27.4		SB	4.00	Rv2711, TB
DRB5_0101	111	VERRLVKVLNNPTTS	LVKVLNNPT	0.6871	29.5		SB	4.00	Rv2711, TB
DRB5_0101	65	EKGRALAIAVMRKHR	RALAIAVMR	0.6858	29.9		SB	4.00	Rv2711, TB
DRB5_0101	114	RLVKVLNNPTTSPFG	LVKVLNNPT	0.6734	34.2		SB	4.00	Rv2711, TB
DRB5_0101	71	AIAVMRKHRLAERLL	AIAVMRKHR	0.6615	39.0		SB	8.00	Rv2711, TB
DRB5_0101	110	DVERRLVKVLNNPTT	RRLVKVLNN	0.6601	39.6		SB	8.00	Rv2711, TB
DRB5_0101	109	EDVERRLVKVLNNPT	RRLVKVLNN	0.5869	87.4		WB	16.00	Rv2711, TB
DRB5_0101	115	LVKVLNNPTTSPFGN	LVKVLNNPT	0.5832	90.9		WB	16.00	Rv2711, TB
DRB5_0101	72	IAVMRKHRLAERLLV	IAVMRKHRL	0.5731	101.4		WB	16.00	Rv2711, TB
DRB5_0101	64	TEKGRALAIAVMRKH	RALAIAVMR	0.5633	112.7		WB	16.00	Rv2711, TB
DRB5_0101	19	EEGVTPLRARIAERL	GVTPLRARI	0.5603	116.5		WB	16.00	Rv2711, TB
DRB5_0101	49	RDGLLRVAGDRHLEL	LLRVAGDRH	0.5562	121.8		WB	16.00	Rv2711, TB
DRB5_0101	50	DGLLRVAGDRHLELT	LLRVAGDRH	0.5498	130.5		WB	16.00	Rv2711, TB
DRB5_0101	18	EEGVTPLRARIAER	GVTPLRARI	0.5472	134.2		WB	16.00	Rv2711, TB
DRB5_0101	20	EGVTPLRARIAERLD	GVTPLRARI	0.5467	134.9		WB	16.00	Rv2711, TB
DRB5_0101	51	GLLRVAGDRHLELTE	LRVAGDRHL	0.5393	146.2		WB	16.00	Rv2711, TB
DRB5_0101	17	LEEGVTPLRARIAE	GVTPLRARI	0.5324	157.5		WB	16.00	Rv2711, TB
DRB5_0101	48	ERDGLLRVAGDRHLE	LLRVAGDRH	0.5157	188.6		WB	32.00	Rv2711, TB
DRB5_0101	16	DEEEGVTPLRARIA	GVTPLRARI	0.5126	195.1		WB	32.00	Rv2711, TB
DRB5_0101	21	GVTPLRARIAERLDQ	GVTPLRARI	0.5109	198.7		WB	32.00	Rv2711, TB
DRB5_0101	215	TLPHEMAHAVKVEKV	LPHEMAHAV	0.5066	208.2		WB	32.00	Rv2711, TB
DRB5_0101	73	AVMRKHRLAERLLVD	RKHRLAERL	0.5047	212.5		WB	32.00	Rv2711, TB
DRB5_0101	214	VTLPHEMAHAVKVEK	LPHEMAHAV	0.5035	215.3		WB	32.00	Rv2711, TB
DRB5_0101	212	ENVTLPHEMAHAVKV	LPHEMAHAV	0.5028	217.0		WB	32.00	Rv2711, TB
DRB5_0101	75	MRKHRLAERLLVDVI	HRLAERLLV	0.5014	220.2		WB	32.00	Rv2711, TB
DRB5_0101	74	VMRKHRLAERLLVDV	HRLAERLLV	0.5007	222.0		WB	32.00	Rv2711, TB
DRB5_0101	63	LTEKGRALAIAVMRK	RALAIAVMR	0.4970	231.0		WB	32.00	Rv2711, TB
DRB5_0101	4	VDTTEMYLRTIYDLE	EMYLRTIYD	0.4869	257.7		WB	32.00	Rv2711, TB
DRB5_0101	213	NVTLPHEMAHAVKVE	LPHEMAHAV	0.4865	258.9		WB	32.00	Rv2711, TB
DRB5_0101	52	LLRVAGDRHLELTEK	LLRVAGDRH	0.4857	261.0		WB	32.00	Rv2711, TB
DRB5_0101	47	MERDGLLRVAGDRHL	LLRVAGDRH	0.4843	264.9		WB	32.00	Rv2711, TB
DRB5_0101	15	YDLLEEGLVPLRARI	GVTPLRARI	0.4610	341.1		WB	32.00	Rv2711, TB
DRB5_0101	3	LVDTTEMYLRTIYDL	VDTTEMYLR	0.4609	341.4		WB	32.00	Rv2711, TB
DRB5_0101	116	VKVLNNPTTSPFGNP	VKVLNNPTT	0.4537	368.9		WB	32.00	Rv2711, TB
DRB5_0101	108	SEDVERRLVKVLNNP	RRLVKVLNN	0.4512	379.2		WB	32.00	Rv2711, TB
DRB5_0101	76	RKHRLAERLLVDVIG	RKHRLAERL	0.4498	384.9		WB	32.00	Rv2711, TB
DRB5_0101	100	ACRWEHVMSEDVERR	WEHVMSEDV	0.4450	405.4		WB	32.00	Rv2711, TB
DRB5_0101	5	DTEMYLRTIYDLEE	EMYLRTIYD	0.4450	405.6		WB	32.00	Rv2711, TB
DRB5_0101	211	HENVTLPHEMAHAVK	LPHEMAHAV	0.4398	428.8		WB	32.00	Rv2711, TB
DRB5_0101	102	RWEHVMSEDVERRLV	HVMSEDVER	0.4381	436.7		WB	32.00	Rv2711, TB
DRB5_0101	6	TTEMYLRTIYDLEE	EMYLRTIYD	0.4340	456.6		WB	32.00	Rv2711, TB
DRB5_0101	101	CRWEHVMSEDVERRL	HVMSEDVER	0.4310	471.7		WB	32.00	Rv2711, TB
DRB5_0101	160	SPVAVVVRQLTEHVQ	VVRQLTEHV	0.4258	499.1		WB	32.00	Rv2711, TB
DRB5_0101	103	WEHVMSEDVERRLVK	VMSEDVERR	0.4257	499.6		WB	32.00	Rv2711, TB
DRB5_0101	159	GSPVAVVVRQLTEHV	VVRQLTEHV	0.4249	503.8		WB	32.00	Rv2711, TB
DRB5_0101	2	ELVDTTTEMYLRTIYD	VDTTEMYLR	0.4216	522.1		WB	32.00	Rv2711, TB
DRB5_0101	36	SGPTVSQTVSRMERD	PTVSQTVSR	0.4182	541.8		WB	32.00	Rv2711, TB
DRB5_0101	46	RMERDGLLRVAGDRH	LLRVAGDRH	0.4136	569.4		WB	32.00	Rv2711, TB
DRB5_0101	7	TEMYLRTIYDLEEEG	EMYLRTIYD	0.4119	580.4		WB	50.00	Rv2711, TB
DRB5_0101	37	GPTVSQTVSRMERDG	PTVSQTVSR	0.4079	605.5		WB	50.00	Rv2711, TB
DRB5_0101	35	QSGPTVSQTVSRMER	PTVSQTVSR	0.4076	607.5		WB	50.00	Rv2711, TB
DRB5_0101	210	GHEVNTLPHEMAHAV	LPHEMAHAV	0.4069	612.1		WB	50.00	Rv2711, TB
DRB5_0101	162	VAVVVRQLTEHVQGD	VVRQLTEHV	0.4028	640.0		WB	50.00	Rv2711, TB
DRB5_0101	161	PVAVVVRQLTEHVQG	VVRQLTEHV	0.3995	663.1		WB	50.00	Rv2711, TB
DRB5_0101	8	EMYLRTIYDLEEEGV	EMYLRTIYD	0.3968	682.7		WB	50.00	Rv2711, TB
DRB5_0101	38	PTVSQTVSRMERDGL	PTVSQTVSR	0.3944	700.8		WB	50.00	Rv2711, TB
DRB5_0101	150	LVRLELTPAGSPVAV	RLTELPAGS	0.3879	752.1		WB	50.00	Rv2711, TB
DRB5_0101	62	ELTEKGRALAIAVMR	RALAIAVMR	0.3873	757.3		WB	50.00	Rv2711, TB
DRB5_0101	22	VPLRARIAERLDQS	PLRARIAER	0.3826	796.6		WB	50.00	Rv2711, TB
DRB5_0101	1	NELVDTTTEMYLRTIY	VDTTEMYLR	0.3801	817.9		WB	50.00	Rv2711, TB
DRB5_0101	149	NLVRLELTPAGSPVA	RLTELPAGS	0.3798	821.2		WB	50.00	Rv2711, TB
DRB5_0101	99	EACRWEHVMSEDVER	WEHVMSEDV	0.3769	846.9		WB	50.00	Rv2711, TB
DRB5_0101	107	MSEDVERRLVKVLNN	RRLVKVLNN	0.3764	851.5		WB	50.00	Rv2711, TB
DRB5_0101	58	DRHLELTEKGRALAI	LELTEKGRA	0.3758	857.5		WB	50.00	Rv2711, TB
DRB5_0101	163	AVVVRQLTEHVQGDI	VVRQLTEHV	0.3727	886.1		WB	50.00	Rv2711, TB
DRB5_0101	104	EHVMSEDVERRLVKV	VMSEDVERR	0.3714	899.4		WB	50.00	Rv2711, TB

DRB5_0101	151	VRLELTPAGSPVAVV	RLTELPAGS	0.3708	904.5	50.00	Rv2711, TB
DRB5_0101	57	GDRHLELTEKGRALA	HLELTEKGR	0.3704	908.6	50.00	Rv2711, TB
DRB5_0101	105	HVMSEDEVERRLVKVL	VMSEDEVERR	0.3700	912.6	50.00	Rv2711, TB
DRB5_0101	23	PLRARIAERLDQSG	PLRARIAER	0.3672	940.5	50.00	Rv2711, TB
DRB5_0101	59	RHLELTEKGRALAI	LELTEKGRA	0.3584	1034.5	50.00	Rv2711, TB
DRB5_0101	148	ANLVRLELTPAGSPV	RLTELPAGS	0.3545	1079.7	50.00	Rv2711, TB
DRB5_0101	77	KHRLAERLLVDVIGL	HRLAERLLV	0.3535	1091.1	50.00	Rv2711, TB
DRB5_0101	0	MRELVDTTTEMYLRTI	VDTTTEMYLR	0.3505	1126.5	50.00	Rv2711, TB
DRB5_0101	164	VVVRQLTEHVQGDID	VVRQLTEHV	0.3498	1136.1	50.00	Rv2711, TB
DRB5_0101	182	RLKDAGVVPNARVTV	AGVVPNARV	0.3491	1144.0	50.00	Rv2711, TB
DRB5_0101	34	DQSGPTVSTQVSRME	PTVSTQVSR	0.3481	1157.2	50.00	Rv2711, TB
DRB5_0101	78	HRLAERLLVDVIGLP	HRLAERLLV	0.3458	1186.1	50.00	Rv2711, TB
DRB5_0101	158	AGSPVAVVVRQLTEH	SPVAVVVRQ	0.3419	1236.4	50.00	Rv2711, TB
DRB5_0101	24	PLRARIAERLDQSGP	PLRARIAER	0.3419	1236.6	50.00	Rv2711, TB
DRB5_0101	56	AGDRHLELTEKGRAL	HLELTEKGR	0.3413	1244.7	50.00	Rv2711, TB
DRB5_0101	95	EVHAEACRWEHVMSE	EVHAEACRW	0.3379	1292.0	50.00	Rv2711, TB
DRB5_0101	53	LRVAGDRHLELTEKG	LRVAGDRHL	0.3370	1304.0	50.00	Rv2711, TB
DRB5_0101	181	TRLKDAGVVPNARVT	AGVVPNARV	0.3289	1424.1	50.00	Rv2711, TB
DRB5_0101	180	ITRLKDAGVVPNARV	AGVVPNARV	0.3261	1467.5	50.00	Rv2711, TB
DRB5_0101	94	AEACRWEHVMSEDEV	WEHVMSEDEV	0.3243	1497.0	50.00	Rv2711, TB
DRB5_0101	98	EEVHAEACRWEHVMSE	EVHAEACRW	0.3207	1555.2	50.00	Rv2711, TB
DRB5_0101	147	DANLVRLELTPAGSP	RLTELPAGS	0.3202	1563.6	50.00	Rv2711, TB
DRB5_0101	60	HLELTEKGRALAI	LELTEKGRA	0.3137	1678.0	50.00	Rv2711, TB
DRB5_0101	157	PAGSPVAVVVRQLTE	SPVAVVVRQ	0.3123	1703.6	50.00	Rv2711, TB
DRB5_0101	183	LKDAGVVPNARVTE	AGVVPNARV	0.3122	1705.9	50.00	Rv2711, TB
DRB5_0101	209	PGHENVTLPHEMAHA	ENVTLPHEM	0.3090	1765.5	50.00	Rv2711, TB
DRB5_0101	97	HAEACRWEHVMSEDEV	WEHVMSEDEV	0.3085	1774.9	50.00	Rv2711, TB
DRB5_0101	33	LDQSGPTVSTQVSRM	PTVSTQVSR	0.3055	1834.7	50.00	Rv2711, TB
DRB5_0101	93	WEEVHAEACRWEHVM	EVHAEACRW	0.3017	1911.1	50.00	Rv2711, TB
DRB5_0101	106	VMSDEVERRLVKVLN	VMSEDEVERR	0.2993	1961.4	50.00	Rv2711, TB
DRB5_0101	179	LITRLKDAGVVPNAR	ITRLKDAGV	0.2983	1983.2	50.00	Rv2711, TB
DRB5_0101	152	RLTELPAGSPVAVVV	RLTELPAGS	0.2983	1983.7	50.00	Rv2711, TB
DRB5_0101	45	SRMERDGLLRVAGDR	RMERDGLLR	0.2977	1994.6	50.00	Rv2711, TB
DRB5_0101	203	GVTVIPGHENVTLP	VTIVIPGHE	0.2972	2005.8	50.00	Rv2711, TB
DRB5_0101	202	GGVTIVIPGHENVTLP	VTIVIPGHE	0.2971	2008.2	50.00	Rv2711, TB
DRB5_0101	184	KDAGVVPNARVTVET	AGVVPNARV	0.2961	2029.6	50.00	Rv2711, TB
DRB5_0101	92	PWEEVHAEACRWEHV	EVHAEACRW	0.2952	2050.8	50.00	Rv2711, TB
DRB5_0101	55	VAGDRHLELTEKGRA	LELTEKGRA	0.2944	2068.0	50.00	Rv2711, TB
DRB5_0101	146	DDANLVRLELTPAGS	RLTELPAGS	0.2904	2160.6	50.00	Rv2711, TB
DRB5_0101	9	MYLRTIYDLEEEGVT	LRTIYDLEE	0.2883	2209.9	50.00	Rv2711, TB
DRB5_0101	177	IDLITRLKDAGVVPN	LITRLKDAG	0.2878	2220.1	50.00	Rv2711, TB
DRB5_0101	185	DAGVVPNARVTVETT	AGVVPNARV	0.2853	2282.3	50.00	Rv2711, TB
DRB5_0101	117	KVLNNTTSPFGNPI	KVLNNTTSP	0.2850	2289.1	50.00	Rv2711, TB
DRB5_0101	91	LPWEEVHAEACRWEH	EVHAEACRW	0.2841	2312.5	50.00	Rv2711, TB
DRB5_0101	124	TSPFGNPIPGLVELG	FGNPIPGLV	0.2827	2347.8	50.00	Rv2711, TB
DRB5_0101	178	DLITRLKDAGVVPNA	ITRLKDAGV	0.2826	2349.8	50.00	Rv2711, TB
DRB5_0101	175	GGIDLITRLKDAGV	ITRLKDAGV	0.2821	2361.9	50.00	Rv2711, TB
DRB5_0101	201	GGVTIVIPGHENVT	VTIVIPGHE	0.2789	2445.9	50.00	Rv2711, TB
DRB5_0101	156	LPAGSPVAVVVRQLT	SPVAVVVRQ	0.2782	2464.5	50.00	Rv2711, TB
DRB5_0101	123	TTSFGNPIPGLVEL	FGNPIPGLV	0.2781	2466.7	50.00	Rv2711, TB
DRB5_0101	174	QGDIDLITRLKDAGV	IDLITRLKD	0.2763	2514.3	50.00	Rv2711, TB
DRB5_0101	14	IYDLEEEGVTPLRAR	EEGVTPLRA	0.2729	2610.8	50.00	Rv2711, TB
DRB5_0101	165	VVRQLTEHVQGDIDL	VVRQLTEHV	0.2725	2622.2	50.00	Rv2711, TB
DRB5_0101	39	TVSQTVSRMERDGLL	TVSQTVSRM	0.2700	2694.2	50.00	Rv2711, TB
DRB5_0101	125	SPFGNPIPGLVELGV	FGNPIPGLV	0.2698	2697.5	50.00	Rv2711, TB
DRB5_0101	90	GLPWEEVHAEACRWE	EVHAEACRW	0.2659	2816.8	50.00	Rv2711, TB
DRB5_0101	61	LELTEKGRALAI	LELTEKGRA	0.2655	2826.2	50.00	Rv2711, TB
DRB5_0101	43	TVSRMERDGLLRVAG	RMERDGLLR	0.2634	2893.1	50.00	Rv2711, TB
DRB5_0101	204	VTIVIPGHENVTLP	VTIVIPGHE	0.2621	2934.2	50.00	Rv2711, TB
DRB5_0101	44	VSRMERDGLLRVAGD	RMERDGLLR	0.2596	3013.6	50.00	Rv2711, TB
DRB5_0101	25	LRARIAERLDQSGPT	LRARIAERL	0.2576	3078.7	50.00	Rv2711, TB
DRB5_0101	122	PTTSPFGNPIPGLVE	FGNPIPGLV	0.2573	3090.0	50.00	Rv2711, TB
DRB5_0101	208	IPGHENVTLPHEMAH	ENVTLPHEM	0.2571	3098.0	50.00	Rv2711, TB
DRB5_0101	176	DIDLITRLKDAGVVP	ITRLKDAGV	0.2550	3167.4	50.00	Rv2711, TB
DRB5_0101	186	AGVVPNARVTVETTP	AGVVPNARV	0.2545	3184.3	50.00	Rv2711, TB
DRB5_0101	79	RLAERLLVDVIGLPW	RLLDVIGL	0.2517	3281.8	50.00	Rv2711, TB
DRB5_0101	200	PGGGVTIVIPGHENV	VTIVIPGHE	0.2490	3378.9	50.00	Rv2711, TB
DRB5_0101	42	QTVSRMERDGLLRVA	RMERDGLLR	0.2441	3565.8	50.00	Rv2711, TB
DRB5_0101	80	LAERLLVDVIGLPWE	RLLDVIGL	0.2438	3575.8	50.00	Rv2711, TB
DRB5_0101	41	SQTVSRMERDGLLRV	RMERDGLLR	0.2429	3612.1	50.00	Rv2711, TB
DRB5_0101	155	ELPAGSPVAVVVRQL	GSPVAVVVR	0.2419	3648.5	50.00	Rv2711, TB
DRB5_0101	126	PFGNPIPGLVELGVG	FGNPIPGLV	0.2401	3723.4	50.00	Rv2711, TB
DRB5_0101	173	VQGDIDLITRLKDAG	DIDLITRLK	0.2381	3804.2	50.00	Rv2711, TB
DRB5_0101	127	FGNPIPGLVELGVGP	FGNPIPGLV	0.2368	3856.0	50.00	Rv2711, TB
DRB5_0101	10	YLRTIYDLEEEGVT	YLRTIYDLE	0.2297	4164.6	50.00	Rv2711, TB
DRB5_0101	81	AERLLVDVIGLPWEE	RLLDVIGL	0.2285	4221.1	50.00	Rv2711, TB
DRB5_0101	89	IGLPWEEVHAEACRW	EVHAEACRW	0.2281	4237.2	50.00	Rv2711, TB



DRB5_0101	121	NPTTSPFGNPIPLV	FGNPIPLV	0.2244	4409.8	50.00	Rv2711, TB
DRB5_0101	82	ERLLVDVIGLPWEEV	RLLDVIGL	0.2234	4456.6	50.00	Rv2711, TB
DRB5_0101	54	RVAGDRHLELTEKGR	RHLELTEKG	0.2232	4469.4	50.00	Rv2711, TB
DRB5_0101	40	VSQTVSRMERDGLLR	RMERDGLLR	0.2220	4524.5	50.00	Rv2711, TB
DRB5_0101	118	VLNNPTTSPFGNPIP	LNNPTTSPF	0.2213	4562.5	50.00	Rv2711, TB
DRB5_0101	145	ADDANLVRLTELPAG	LVRLTELPA	0.2176	4747.5	50.00	Rv2711, TB
DRB5_0101	199	TPGGVTVIVIPGHEN	VTIVIPGHE	0.2173	4762.4	50.00	Rv2711, TB
DRB5_0101	207	VIPGHENVTLPHEMA	ENVTLPHEM	0.2148	4895.7	50.00	Rv2711, TB
DRB5_0101	172	HVQGDIDLITRLKDA	DIDLITRLK	0.2146	4904.6	50.00	Rv2711, TB
DRB5_0101	32	RLDQSGPTVSQTVSR	PTVSQTVSR	0.2125	5017.3	50.00	Rv2711, TB
DRB5_0101	93	RLLDVIGLPWEEVH	RLLDVIGL	0.2119	5049.4	50.00	Rv2711, TB
DRB5_0101	86	VHAEACRWEHVMSSE	CRWEHVMSSE	0.2114	5078.8	50.00	Rv2711, TB
DRB5_0101	192	ARVTVETTPGGGVVTI	RVTVETTPG	0.2113	5083.2	50.00	Rv2711, TB
DRB5_0101	191	NARVTVETTPGGGVVT	RVTVETTPG	0.2102	5143.5	50.00	Rv2711, TB
DRB5_0101	154	TELPAGSPVAVVVVRQ	GSPVAVVVR	0.2091	5204.4	50.00	Rv2711, TB
DRB5_0101	187	GVVPNARVTVETTPG	GVVPNARVT	0.2043	5482.2	50.00	Rv2711, TB
DRB5_0101	190	PNARVTVETTPGGGV	RVTVETTPG	0.2029	5564.3	50.00	Rv2711, TB
DRB5_0101	193	RVTVETTPGGGVTVI	RVTVETTPG	0.1964	5969.9	50.00	Rv2711, TB
DRB5_0101	189	VPNARVTVETTPGGG	RVTVETTPG	0.1939	6137.1	50.00	Rv2711, TB
DRB5_0101	188	VVPNARVTVETTPGG	RVTVETTPG	0.1892	6455.8	50.00	Rv2711, TB
DRB5_0101	153	LTELPAGSPVAVVVVR	GSPVAVVVR	0.1873	6588.4	50.00	Rv2711, TB
DRB5_0101	144	GADDANLVRLTELPA	LVRLTELPA	0.1852	6743.1	50.00	Rv2711, TB
DRB5_0101	206	IVIPGHENVTLPHEM	ENVTLPHEM	0.1840	6828.7	50.00	Rv2711, TB
DRB5_0101	171	EHVQGDIDLITRLK	DIDLITRLK	0.1803	7107.4	50.00	Rv2711, TB
DRB5_0101	119	LNNPTTSPFGNPIPG	LNNPTTSPF	0.1797	7156.8	50.00	Rv2711, TB
DRB5_0101	13	TIYDLEEEGVTPLRA	EEGVTPLRA	0.1784	7256.9	50.00	Rv2711, TB
DRB5_0101	198	TTPGGVTVIVIPGHE	VTIVIPGHE	0.1749	7533.8	50.00	Rv2711, TB
DRB5_0101	128	GNPIPLVGLVGVGPE	GLVGLVGVG	0.1671	8201.5	50.00	Rv2711, TB
DRB5_0101	84	LLVDVIGLPWEEVHA	DVIGLPWEE	0.1668	8228.4	50.00	Rv2711, TB
DRB5_0101	205	TIVIPGHENVTLPHE	TIVIPGHEN	0.1623	8634.9	50.00	Rv2711, TB
DRB5_0101	129	NPIPGLVGLVGVGPEP	GLVGLVGVG	0.1563	9216.0	50.00	Rv2711, TB
DRB5_0101	85	LVDVIGLPWEEVHAE	LVDVIGLPW	0.1530	9552.6	50.00	Rv2711, TB
DRB5_0101	170	TEHVQGDIDLITRLK	DIDLITRLK	0.1514	9712.4	50.00	Rv2711, TB
DRB5_0101	87	DVIGLPWEEVHAEAC	LPWEEVHAE	0.1506	9800.9	50.00	Rv2711, TB
DRB5_0101	86	VDIIGLPWEEVHAEA	LPWEEVHAE	0.1484	10036.2	50.00	Rv2711, TB
DRB5_0101	11	LRTIYDLEEEGVTPPL	LRTIYDLEE	0.1481	10071.1	50.00	Rv2711, TB
DRB5_0101	120	NNPTTSPFGNPIPL	TTSPFGNPI	0.1468	10209.5	50.00	Rv2711, TB
DRB5_0101	133	GLVGLVGVGPEPGAD	GLVGLVGVG	0.1435	10582.4	50.00	Rv2711, TB
DRB5_0101	143	PGADDANLVRLTELP	ADDANLVRL	0.1401	10982.8	50.00	Rv2711, TB
DRB5_0101	132	PGLVGLVGVGPEPGAD	GLVGLVGVG	0.1368	11381.0	50.00	Rv2711, TB
DRB5_0101	88	VIGLPWEEVHAEACR	LPWEEVHAE	0.1331	11839.5	50.00	Rv2711, TB
DRB5_0101	130	PIPLVGLVGVGPEPG	GLVGLVGVG	0.1310	12114.4	50.00	Rv2711, TB
DRB5_0101	131	IPGLVGLVGVGPEPGA	GLVGLVGVG	0.1308	12149.3	50.00	Rv2711, TB
DRB5_0101	142	EPGADDANLVRLTELP	ADDANLVRL	0.1249	12940.9	50.00	Rv2711, TB
DRB5_0101	136	ELGVGPEPGADDANL	GVGPEPGAD	0.1233	13176.2	50.00	Rv2711, TB
DRB5_0101	27	ARIAERLDQSGPTVS	ARIAERLDQ	0.1198	13685.6	50.00	Rv2711, TB
DRB5_0101	135	VELGVGPEPGADDAN	GVGPEPGAD	0.1195	13729.5	50.00	Rv2711, TB
DRB5_0101	26	RARIAERLDQSGPTV	ARIAERLDQ	0.1178	13973.3	50.00	Rv2711, TB
DRB5_0101	137	LGVGPEPGADDANLV	GVGPEPGAD	0.1178	13984.8	50.00	Rv2711, TB
DRB5_0101	12	RTIYDLEEEGVTPPLR	YDLEEEGV	0.1152	14372.6	50.00	Rv2711, TB
DRB5_0101	166	VRQLTEHVQGDIDL	VRQLTEHVQ	0.1152	14377.3	50.00	Rv2711, TB
DRB5_0101	28	RIAERLDQSGPTVSL	RLDQSGPTV	0.1147	14453.7	50.00	Rv2711, TB
DRB5_0101	29	IAERLDQSGPTVSQT	RLDQSGPTV	0.1101	15192.1	50.00	Rv2711, TB
DRB5_0101	31	ERLDQSGPTVSQTVS	RLDQSGPTV	0.1093	15326.5	50.00	Rv2711, TB
DRB5_0101	138	GVGPEPGADDANLVR	GVGPEPGAD	0.1091	15361.7	50.00	Rv2711, TB
DRB5_0101	134	LVELGVGPEPGADDA	GVGPEPGAD	0.1075	15627.1	50.00	Rv2711, TB
DRB5_0101	30	AERLDQSGPTVSQTV	RLDQSGPTV	0.1045	16145.1	50.00	Rv2711, TB
DRB5_0101	194	VTVETTPGGGVTVI	VTVETTPGG	0.0996	17018.8	50.00	Rv2711, TB
DRB5_0101	141	PEPGADDANLVRLTE	ADDANLVRL	0.0982	17271.5	50.00	Rv2711, TB
DRB5_0101	169	LTEHVQGDIDLITRL	GDIDLITRL	0.0879	19325.2	50.00	Rv2711, TB
DRB5_0101	140	GPEPGADDANLVRLT	ADDANLVRL	0.0823	20528.5	50.00	Rv2711, TB
DRB5_0101	167	RQLTEHVQGDIDLIT	RQLTEHVQG	0.0797	21109.9	50.00	Rv2711, TB
DRB5_0101	139	VGPEPGADDANLVRL	ADDANLVRL	0.0763	21897.4	50.00	Rv2711, TB
DRB5_0101	197	ETTPGGGVTVIVIPGH	GTVIVIPGH	0.0731	22663.9	50.00	Rv2711, TB
DRB5_0101	195	TVETTPGGGVTVIVIP	TVETTPGGG	0.0604	26010.4	50.00	Rv2711, TB
DRB5_0101	168	QLTEHVQGDIDLITR	EHVQGDIDL	0.0581	26665.8	50.00	Rv2711, TB
DRB5_0101	196	VETTPGGGVTVIVIPG	GGTVIVIPG	0.0556	27409.1	50.00	Rv2711, TB

Allele: DRB5\_0101. Number of high binders 12. Number of weak binders 38. Number of peptides 216

Allele	pos	peptide	core	1-log50k(aff)	affinity(nM)	Bind Level	%Random	Identity
IAb	153	LTELPAGSPVAVVVVR	LPAGSPVAV	0.6090	68.8	WB	2.00	Rv2711, TB
IAb	154	TELPAGSPVAVVVVRQ	LPAGSPVAV	0.6033	73.1	WB	2.00	Rv2711, TB

IAb	152	RLTELPAGSPVAVVV	ELPAGSPVA	0.5885	85.8	WB	2.00	Rv2711, TB
IAb	155	ELPAGSPVAVVVRQL	LPAGSPVAV	0.5865	87.7	WB	2.00	Rv2711, TB
IAb	116	VKVLNNPTTSPFGNP	KVLNNPTTS	0.5720	102.5	WB	4.00	Rv2711, TB
IAb	115	LVKVLNNPTTSPFGN	KVLNNPTTS	0.5682	107.0	WB	4.00	Rv2711, TB
IAb	114	RLVKVLNNPTTSPFG	KVLNNPTTS	0.5573	120.3	WB	4.00	Rv2711, TB
IAb	124	TSPFGNPI PGLVELG	SPFGNPIPG	0.5492	131.3	WB	4.00	Rv2711, TB
IAb	123	TTPFGNPI PGLVE	SPFGNPIPG	0.5488	131.9	WB	4.00	Rv2711, TB
IAb	122	PTSPFGNPI PGLVE	SPFGNPIPG	0.5355	152.3	WB	4.00	Rv2711, TB
IAb	151	VLTELPAGSPVAVV	ELPAGSPVA	0.5311	159.6	WB	4.00	Rv2711, TB
IAb	113	RRLVKVLNNPTTSPF	KVLNNPTTS	0.5277	165.7	WB	4.00	Rv2711, TB
IAb	121	NPTTSPFGNPI PGLV	SPFGNPIPG	0.5084	204.2	WB	8.00	Rv2711, TB
IAb	117	KVLNNPTTSPFGNPI	KVLNNPTTS	0.4871	257.0	WB	8.00	Rv2711, TB
IAb	150	LVRLTELPAGSPVAV	LPAGSPVAV	0.4786	282.0	WB	8.00	Rv2711, TB
IAb	112	ERRLVKVLNNPTTSP	KVLNNPTTS	0.4563	358.6	WB	8.00	Rv2711, TB
IAb	156	LPAGSPVAVVVRQLT	LPAGSPVAV	0.4321	466.0	WB	16.00	Rv2711, TB
IAb	31	ERLDQSGPTVSQTVS	LDQSGPTVS	0.4176	545.2		16.00	Rv2711, TB
IAb	120	NNPTTSPFGNPI PGL	SPFGNPIPG	0.4175	545.8		16.00	Rv2711, TB
IAb	30	AERLDQSGPTVSQTV	LDQSGPTVS	0.4157	556.8		16.00	Rv2711, TB
IAb	125	SPFGNPI PGLVELGV	SPFGNPIPG	0.4104	589.8		16.00	Rv2711, TB
IAb	32	RLDQSGPTVSQTVSR	LDQSGPTVS	0.4052	623.7		16.00	Rv2711, TB
IAb	119	LNNPTTSPFGNPI PG	SPFGNPIPG	0.4043	629.9		16.00	Rv2711, TB
IAb	111	VERRLVKVLNNPTTS	KVLNNPTTS	0.3912	725.6		16.00	Rv2711, TB
IAb	33	LDQSGPTVSQTVSRM	LDQSGPTVS	0.3875	754.9		16.00	Rv2711, TB
IAb	118	VLNNPTTSPFGNPI P	NPTTSPFGN	0.3870	759.8		16.00	Rv2711, TB
IAb	29	IAERLDQSGPTVSQTV	LDQSGPTVS	0.3612	1004.4		16.00	Rv2711, TB
IAb	149	NLVRLTELPAGSPVA	ELPAGSPVA	0.3452	1193.5		32.00	Rv2711, TB
IAb	19	EEGVTPLRARIAERL	VTPLRARIA	0.3337	1351.3		32.00	Rv2711, TB
IAb	18	EEGVTPLRARIAER	VTPLRARIA	0.3185	1594.2		32.00	Rv2711, TB
IAb	17	LEEEGVTPLRARIAE	EEGVTPLRA	0.3173	1614.4		32.00	Rv2711, TB
IAb	203	GVTIVIPGHENVTL P	VTIVIPGHE	0.3146	1662.7		32.00	Rv2711, TB
IAb	28	RIAERLDQSGPTVSQ	LDQSGPTVS	0.3142	1668.7		32.00	Rv2711, TB
IAb	204	VTIVIPGHENVTLPH	VTIVIPGHE	0.3078	1789.3		32.00	Rv2711, TB
IAb	16	DLEEEGVTPLRARIA	EEGVTPLRA	0.3026	1892.8		32.00	Rv2711, TB
IAb	20	EGVTPLRARIAERLD	VTPLRARIA	0.3001	1944.3		32.00	Rv2711, TB
IAb	215	TLPHEMAHAVKVEK	HEMAHAVKV	0.2999	1948.1		32.00	Rv2711, TB
IAb	202	GGVTIVIPGHENVTL	VTIVIPGHE	0.2994	1959.8		32.00	Rv2711, TB
IAb	22	VTPLRARIAERLDQS	VTPLRARIA	0.2938	2081.0		32.00	Rv2711, TB
IAb	126	PFGNPI PGLVELGVG	GNPI PGLVE	0.2916	2130.9		32.00	Rv2711, TB
IAb	21	GVTPLRARIAERLDQ	VTPLRARIA	0.2878	2222.3		32.00	Rv2711, TB
IAb	64	TEKGRALAIAMVRKH	GRALAIAMV	0.2866	2249.4		32.00	Rv2711, TB
IAb	27	ARIAERLDQSGPTVS	LDQSGPTVS	0.2818	2370.2		32.00	Rv2711, TB
IAb	201	GGVTIVIPGHENV T	VTIVIPGHE	0.2765	2509.3		32.00	Rv2711, TB
IAb	66	KGRALAIAMVRKHRL	GRALAIAMV	0.2753	2542.4		32.00	Rv2711, TB
IAb	182	RLKDAGVVPNARVTV	LKDAGVVPN	0.2738	2585.0		32.00	Rv2711, TB
IAb	65	EKGRALAIAMVRKHR	GRALAIAMV	0.2712	2659.3		32.00	Rv2711, TB
IAb	63	LTEKGRALAIAMVRK	GRALAIAMV	0.2709	2667.2		32.00	Rv2711, TB
IAb	214	NVTLPHEMAHAVKVE	HEMAHAVKV	0.2705	2679.0		32.00	Rv2711, TB
IAb	213	NVTLPHEMAHAVKVE	HEMAHAVKV	0.2659	2814.6		32.00	Rv2711, TB
IAb	183	LKDAGVVPNARVTVE	LKDAGVVPN	0.2653	2834.6		32.00	Rv2711, TB
IAb	127	FGNPI PGLVELGVGP	GNPI PGLVE	0.2639	2876.5		32.00	Rv2711, TB
IAb	67	GRALAIAMVRKHRLA	RALAIAMVR	0.2622	2930.3		32.00	Rv2711, TB
IAb	205	TIVIPGHENVTL PHE	TIVIPGHE	0.2620	2936.7		32.00	Rv2711, TB
IAb	181	TRLKDAGVVPNARVT	LKDAGVVPN	0.2620	2938.0		32.00	Rv2711, TB
IAb	212	ENVTLPHEMAHAVKV	HEMAHAVKV	0.2598	3007.7		32.00	Rv2711, TB
IAb	62	ELTEKGRALAIAMVR	GRALAIAMV	0.2595	3016.5		32.00	Rv2711, TB
IAb	180	ITRLKDAGVVPNARV	LKDAGVVPN	0.2433	3593.7		50.00	Rv2711, TB
IAb	134	LVELGVGPEPGADDA	LVELGVGPE	0.2385	3787.0		50.00	Rv2711, TB
IAb	184	KDAGVVPNARVTVET	DAGVVPNAR	0.2379	3810.0		50.00	Rv2711, TB
IAb	185	DAGVVPNARVTVETT	GVVPNARVT	0.2292	4189.8		50.00	Rv2711, TB
IAb	61	LELTEKGRALAIAMV	GRALAIAMV	0.2285	4221.1		50.00	Rv2711, TB
IAb	200	PGGGVTIVIPGHENV	VTIVIPGHE	0.2265	4312.1		50.00	Rv2711, TB
IAb	133	GLVELGVGPEPGADD	LVELGVGPE	0.2253	4369.0		50.00	Rv2711, TB
IAb	148	ANLVRLTELPAGSPV	RLTELPAGS	0.2215	4552.1		50.00	Rv2711, TB
IAb	210	GHENVTLPHEMAHAV	GHENVTLPH	0.2198	4633.5		50.00	Rv2711, TB
IAb	207	VIPGHENVTL PHEMA	VIPGHENV T	0.2176	4746.4		50.00	Rv2711, TB
IAb	15	YDLEEEGVTPLRARI	EEGVTPLRA	0.2154	4861.5		50.00	Rv2711, TB
IAb	179	LITRLKDAGVVPNAR	LKDAGVVPN	0.2150	4884.7		50.00	Rv2711, TB
IAb	132	PGLVELGVGPEPGAD	LVELGVGPE	0.2145	4909.5		50.00	Rv2711, TB
IAb	209	PGHENVTL PHEMAHA	ENVTL PHEM	0.2125	5015.7		50.00	Rv2711, TB
IAb	199	TPGGVTIVIPGHENV	VTIVIPGHE	0.2078	5278.7		50.00	Rv2711, TB
IAb	135	VELGVGPEPGADDAN	ELGVGPEPG	0.2074	5299.4		50.00	Rv2711, TB
IAb	34	DQSGPTVSQTVSRME	SGPTVSQTV	0.2054	5414.9		50.00	Rv2711, TB
IAb	208	IPGHENVTL PHEMAH	GHENVTLPH	0.2050	5441.1		50.00	Rv2711, TB
IAb	186	AGVVPNARVTVETTP	GVVPNARVT	0.2030	5561.8		50.00	Rv2711, TB
IAb	198	TTPGGVTIVIPGHE	VTIVIPGHE	0.2020	5618.1		50.00	Rv2711, TB
IAb	211	HENVTL PHEMAHAVK	ENVTL PHEM	0.2016	5647.1		50.00	Rv2711, TB
IAb	187	GVVPNARVTVETTPG	GVVPNARVT	0.1967	5954.5		50.00	Rv2711, TB

IAb	35	QS GPTVSQT VSRMER	SGPTVSQTV	0.1962	5984.7	50.00	Rv2711, TB
IAb	23	TPLRARIAERLDQSG	TPLRARIAE	0.1961	5992.8	50.00	Rv2711, TB
IAb	206	IVIPGHENVTLPHM	VIPGHENV	0.1958	6009.5	50.00	Rv2711, TB
IAb	87	DVIGLPWEEVHAEAC	DVIGLPWEE	0.1955	6031.8	50.00	Rv2711, TB
IAb	14	IYDLEEEGVTPLRAR	EEGVTPLRA	0.1952	6052.2	50.00	Rv2711, TB
IAb	110	DVERRLVKVLNNPTT	VKVLNNPTT	0.1922	6245.9	50.00	Rv2711, TB
IAb	68	RALAIAMVRKHRLAE	RALAIAMVR	0.1886	6496.0	50.00	Rv2711, TB
IAb	86	VDVIGLPWEEVHAE	DVIGLPWEE	0.1879	6546.2	50.00	Rv2711, TB
IAb	90	GLPWEEVHAEACRWE	LPWEEVHAE	0.1858	6700.2	50.00	Rv2711, TB
IAb	88	VIGLPWEEVHAEACR	LPWEEVHAE	0.1835	6867.3	50.00	Rv2711, TB
IAb	36	SGPTVSQT VSRMERD	SGPTVSQTV	0.1824	6949.3	50.00	Rv2711, TB
IAb	136	ELGVGPEPGADDANL	ELGVGPEPG	0.1813	7027.8	50.00	Rv2711, TB
IAb	147	DANLVRLTELPA GSP	LVRLTE LPA	0.1801	7122.5	50.00	Rv2711, TB
IAb	131	IPGLVELGVGPEPGA	LVELGVGPE	0.1788	7220.4	50.00	Rv2711, TB
IAb	60	HLELLEKGRALAIIV	KGRALAIIV	0.1787	7229.7	50.00	Rv2711, TB
IAb	89	IQLPWEEVHAEACRW	LPWEEVHAE	0.1787	7233.0	50.00	Rv2711, TB
IAb	85	LVVDVIGLPWEEVHAE	DVIGLPWEE	0.1764	7413.6	50.00	Rv2711, TB
IAb	157	PAGSPVAVVVRQLTE	PAGSPVAVV	0.1730	7688.7	50.00	Rv2711, TB
IAb	128	GNPIPGLVELGVGPE	GNPIPGLVE	0.1706	7895.1	50.00	Rv2711, TB
IAb	188	VVPNARVTVETTPGG	VVPNARVTV	0.1680	8116.1	50.00	Rv2711, TB
IAb	178	DLITRLK DAGVVPNA	LKDAGVVPN	0.1648	8402.1	50.00	Rv2711, TB
IAb	197	ETTPGGGVTVIPGH	TPGGGVTVI	0.1602	8830.4	50.00	Rv2711, TB
IAb	84	LLVDVIGLPWEEVHA	DVIGLPWEE	0.1598	8874.6	50.00	Rv2711, TB
IAb	91	LPWEEVHAEACRWEH	LPWEEVHAE	0.1587	8984.0	50.00	Rv2711, TB
IAb	192	ARVTVETTPGGGVTVI	TPGGGVTVI	0.1561	9232.3	50.00	Rv2711, TB
IAb	189	VPNARVTVETTPGGG	NARVTVETT	0.1530	9552.1	50.00	Rv2711, TB
IAb	13	TIYDLEEEGVTPLRA	EEGVTPLRA	0.1513	9728.1	50.00	Rv2711, TB
IAb	196	VEETTPGGGVTVIPG	TPGGGVTVI	0.1472	10169.5	50.00	Rv2711, TB
IAb	190	PNARVTVETTPGGGV	NARVTVETT	0.1459	10309.9	50.00	Rv2711, TB
IAb	193	RVTVETTPGGGVTVI	TPGGGVTVI	0.1442	10503.0	50.00	Rv2711, TB
IAb	37	GPTVSQT VSRMERDG	TVSQT VSRM	0.1420	10760.1	50.00	Rv2711, TB
IAb	146	DDANLVRLTELPA GS	LVRLTE LPA	0.1410	10877.7	50.00	Rv2711, TB
IAb	130	PIPLGLVELGVGPEPG	LVELGVGPE	0.1389	11130.2	50.00	Rv2711, TB
IAb	195	TVETTPGGGVTVIP	TPGGGVTVI	0.1358	11507.9	50.00	Rv2711, TB
IAb	137	LVGPEPGADDANLV	GVGPEPGAD	0.1346	11659.9	50.00	Rv2711, TB
IAb	59	RHLELLEKGRALAI	ELTEKGRAL	0.1345	11666.7	50.00	Rv2711, TB
IAb	26	RARIAERLDQSGPTV	RLDQSGPTV	0.1334	11812.4	50.00	Rv2711, TB
IAb	191	NARVTVETTPGGGV	RVTVETTPG	0.1318	12017.1	50.00	Rv2711, TB
IAb	194	VTVETTPGGGVTVI	TPGGGVTVI	0.1307	12155.9	50.00	Rv2711, TB
IAb	159	GSPVAVVVRQLTEHV	GSPVAVVVR	0.1292	12351.7	50.00	Rv2711, TB
IAb	24	PLRARIAERLDQSGP	LRARIAERL	0.1286	12440.1	50.00	Rv2711, TB
IAb	177	IDLITRLK DAGVVPN	LKDAGVVPN	0.1276	12564.8	50.00	Rv2711, TB
IAb	25	LRARIAERLDQSGPT	LRARIAERL	0.1274	12604.4	50.00	Rv2711, TB
IAb	158	AGSPVAVVVRQLTEH	GSPVAVVVR	0.1241	13050.3	50.00	Rv2711, TB
IAb	83	RLLDVIGLPWEEVH	DVIGLPWEE	0.1228	13241.8	50.00	Rv2711, TB
IAb	129	NP I PGLVELGVGPEP	LVELGVGPE	0.1185	13873.7	50.00	Rv2711, TB
IAb	160	SPVAVVVRQLTEHVQ	VVRQLTEHV	0.1167	14149.7	50.00	Rv2711, TB
IAb	82	ERLLVDVIGLPWEEV	DVIGLPWEE	0.1157	14293.1	50.00	Rv2711, TB
IAb	73	AVMRKHRLAERLLVD	VMRKHRLAE	0.1153	14366.9	50.00	Rv2711, TB
IAb	74	VMRKHRLAERLLVDV	VMRKHRLAE	0.1150	14408.6	50.00	Rv2711, TB
IAb	58	DRHLELLEKGRALAI	ELTEKGRAL	0.1144	14494.3	50.00	Rv2711, TB
IAb	161	PVAVVVRQLTEHVQGI	VVRQLTEHV	0.1126	14788.8	50.00	Rv2711, TB
IAb	51	GLLRVAGDRHLELTE	LRVAGDRHL	0.1118	14914.1	50.00	Rv2711, TB
IAb	38	PTVSQT VSRMERDGL	TVSQT VSRM	0.1095	15284.8	50.00	Rv2711, TB
IAb	50	DGLLRVAGDRHLELT	LRVAGDRHL	0.1093	15331.3	50.00	Rv2711, TB
IAb	72	IAMVRKHRLAERLLV	VMRKHRLAE	0.1088	15404.1	50.00	Rv2711, TB
IAb	92	PWEEVHAEACRWEHV	WEEVHAEAC	0.1081	15526.5	50.00	Rv2711, TB
IAb	138	GVGPEPGADDANLVR	GVGPEPGAD	0.1078	15581.2	50.00	Rv2711, TB
IAb	162	VAVVVRQLTEHVQGD	VVRQLTEHV	0.1071	15684.8	50.00	Rv2711, TB
IAb	100	ACRWEHVMS SEDVRR	CRWEHVMS E	0.1069	15735.0	50.00	Rv2711, TB
IAb	93	WEEVHAEACRWEHVM	WEEVHAEAC	0.1056	15956.8	50.00	Rv2711, TB
IAb	52	LLRVAGDRHLELTEK	LRVAGDRHL	0.1054	15979.0	50.00	Rv2711, TB
IAb	69	ALAIAMVRKHRLAER	LAIAMVRKH	0.1040	16231.8	50.00	Rv2711, TB
IAb	163	AVVVRQLTEHVQGDI	VVRQLTEHV	0.1028	16435.9	50.00	Rv2711, TB
IAb	101	CRWEHVMS SEDVRR	CRWEHVMS E	0.1028	16441.2	50.00	Rv2711, TB
IAb	49	RDGLLRVAGDRHLEL	LRVAGDRHL	0.1006	16831.3	50.00	Rv2711, TB
IAb	97	HAEACRWEHVMS EDV	CRWEHVMS E	0.1006	16841.7	50.00	Rv2711, TB
IAb	145	ADDANLVRLTELPA G	LVRLTE LPA	0.0999	16971.9	50.00	Rv2711, TB
IAb	99	EACRWEHVMS EDVER	CRWEHVMS E	0.0988	17172.1	50.00	Rv2711, TB
IAb	98	AEACRWEHVMS EDVE	CRWEHVMS E	0.0982	17279.7	50.00	Rv2711, TB
IAb	53	LRVAGDRHLELTEKG	LRVAGDRHL	0.0981	17299.0	50.00	Rv2711, TB
IAb	70	LAIAMVRKHRLAERL	LAIAMVRKH	0.0968	17545.5	50.00	Rv2711, TB
IAb	75	MRKHRLAERLLVDVI	KHRLAERLL	0.0935	18172.5	50.00	Rv2711, TB
IAb	164	VVVRQLTEHVQGDID	VVVRQLTEH	0.0921	18466.2	50.00	Rv2711, TB
IAb	48	ERDGLLRVAGDRHLE	LRVAGDRHL	0.0902	18839.6	50.00	Rv2711, TB
IAb	11	LRTIYDLEEEGVTPL	LEEEGVTPL	0.0889	19104.4	50.00	Rv2711, TB
IAb	109	EDVERRLVKVLNNPT	RRLVKVLNN	0.0888	19131.9	50.00	Rv2711, TB

IAb	95	EVHAEACRWEHVMSE	CRWEHVMSE	0.0886	19164.6	50.00	Rv2711, TB
IAb	71	AIAVMRKHRLAERLL	VMRKHRLAE	0.0869	19522.7	50.00	Rv2711, TB
IAb	96	VHAEACRWEHVMSED	CRWEHVMSE	0.0863	19653.1	50.00	Rv2711, TB
IAb	81	AERLLVDVIGLPWEE	DVIGLPWEE	0.0861	19689.5	50.00	Rv2711, TB
IAb	76	RKHRLAERLLVDVIG	HRLAERLLV	0.0830	20360.8	50.00	Rv2711, TB
IAb	139	VGPEPGADDANLVRL	VGPEPGADD	0.0822	20551.8	50.00	Rv2711, TB
IAb	94	EEVHAEACRWEHVMSE	EEVHAEACR	0.0802	20993.7	50.00	Rv2711, TB
IAb	47	MERDGLLRVAGDRHL	LRVAGDRHL	0.0799	21066.5	50.00	Rv2711, TB
IAb	39	TVSQTVSRMERDGLL	TVSQTVSRM	0.0798	21096.6	50.00	Rv2711, TB
IAb	144	GADDANLVRLTELP	LVRLTELP	0.0792	21216.6	50.00	Rv2711, TB
IAb	12	RTIYDLEEEGVTP	LEEEGVTP	0.0762	21917.0	50.00	Rv2711, TB
IAb	10	YLRTIYDLEEEGVTP	LRTIYDLEE	0.0759	21983.0	50.00	Rv2711, TB
IAb	8	EMYLRTIYDLEEEGV	EMYLRTIYD	0.0752	22164.8	50.00	Rv2711, TB
IAb	9	MYLRTIYDLEEEGV	LRTIYDLEE	0.0744	22347.6	50.00	Rv2711, TB
IAb	0	MNELVDTTTEMYLRTI	NELVDTTTEM	0.0740	22440.1	50.00	Rv2711, TB
IAb	77	KHRLAERLLVDVIGL	KHRLAERLL	0.0722	22891.6	50.00	Rv2711, TB
IAb	1	NELVDTTTEMYLRTIY	NELVDTTTEM	0.0679	23991.7	50.00	Rv2711, TB
IAb	165	VVRQLTEHVQGDIDL	VVRQLTEHV	0.0665	24357.1	50.00	Rv2711, TB
IAb	176	DIDLITRLKDGAVVP	TRLKDGAVV	0.0661	24459.0	50.00	Rv2711, TB
IAb	6	TTEMYLRTIYDLEEE	EMYLRTIYD	0.0657	24563.2	50.00	Rv2711, TB
IAb	108	SEDEVRRLLVKVLNN	RRLVKVLNN	0.0633	25209.1	50.00	Rv2711, TB
IAb	78	HRLAERLLVDVIGLP	HRLAERLLV	0.0628	25340.4	50.00	Rv2711, TB
IAb	7	TEMYLRTIYDLEEEG	EMYLRTIYD	0.0628	25351.7	50.00	Rv2711, TB
IAb	57	GDRHLELTEKGRALA	ELTEKGRAL	0.0572	26918.6	50.00	Rv2711, TB
IAb	141	PEPGADDANLVRLTE	PEPGADDAN	0.0570	26990.1	50.00	Rv2711, TB
IAb	166	VRQLTEHVQGDIDL	VRQLTEHVQ	0.0569	27019.3	50.00	Rv2711, TB
IAb	140	GPEPGADDANLVRLT	PEPGADDAN	0.0564	27150.3	50.00	Rv2711, TB
IAb	5	DTTEMYLRTIYDLEE	EMYLRTIYD	0.0560	27277.2	50.00	Rv2711, TB
IAb	102	RWEHVMSEDEVRRLLV	WEHVMSEDEV	0.0539	27908.3	50.00	Rv2711, TB
IAb	80	LAERLLVDVIGLPWE	RLLVDVIGL	0.0534	28063.6	50.00	Rv2711, TB
IAb	175	GDIDLITRLKDGAVV	TRLKDGAVV	0.0529	28194.5	50.00	Rv2711, TB
IAb	4	VDTTEMYLRTIYDLE	EMYLRTIYD	0.0526	28289.5	50.00	Rv2711, TB
IAb	103	WEHVMSEDEVRRLLV	WEHVMSEDEV	0.0497	29208.9	50.00	Rv2711, TB
IAb	3	LVDTTEMYLRTIYDL	EMYLRTIYD	0.0488	29498.0	50.00	Rv2711, TB
IAb	40	VSQTVSRMERDGLLR	VSQTVSRME	0.0477	29844.7	50.00	Rv2711, TB
IAb	168	QLTEHVQGDIDLITR	TEHVQGDID	0.0472	29999.7	50.00	Rv2711, TB
IAb	2	ELVDTTTEMYLRTIYD	TTEMYLRTI	0.0462	30334.3	50.00	Rv2711, TB
IAb	142	EPGADDANLVRLTE	PGADDANLV	0.0454	30596.7	50.00	Rv2711, TB
IAb	167	RQLTEHVQGDIDLIT	TEHVQGDID	0.0450	30710.4	50.00	Rv2711, TB
IAb	79	RLAERLLVDVIGLPW	RLAERLLVD	0.0448	30791.3	50.00	Rv2711, TB
IAb	107	MSEDVRRLLVKVLNN	RRLVKVLNN	0.0447	30833.3	50.00	Rv2711, TB
IAb	143	PGADDANLVRLTELP	PGADDANLV	0.0440	31053.3	50.00	Rv2711, TB
IAb	56	AGDRHLELTEKGRAL	ELTEKGRAL	0.0436	31186.9	50.00	Rv2711, TB
IAb	169	LTEHVQGDIDLITRL	HVQGDIDLI	0.0434	31270.1	50.00	Rv2711, TB
IAb	46	RMERDGLLRVAGDRH	MERDGLLRV	0.0427	31509.2	50.00	Rv2711, TB
IAb	170	TEHVQGDIDLITRLK	TEHVQGDID	0.0411	32064.9	50.00	Rv2711, TB
IAb	174	QGDIDLITRLKDGAV	IDLITRLKD	0.0410	32090.3	50.00	Rv2711, TB
IAb	45	SRMERDGLLRVAGDR	MERDGLLRV	0.0382	33080.2	50.00	Rv2711, TB
IAb	171	EHVQGDIDLITRLKD	EHVQGDIDL	0.0379	33195.6	50.00	Rv2711, TB
IAb	54	RVAGDRHLELTEKGR	RVAGDRHLE	0.0374	33367.4	50.00	Rv2711, TB
IAb	172	HVQGDIDLITRLKDA	IDLITRLKD	0.0364	33712.9	50.00	Rv2711, TB
IAb	44	VSQTVSRMERDGLLRV	MERDGLLRV	0.0338	34692.0	50.00	Rv2711, TB
IAb	55	VAGDRHLELTEKGRA	RHLELTEKG	0.0332	34927.8	50.00	Rv2711, TB
IAb	173	VQGDIDLITRLKDG	IDLITRLKD	0.0329	35009.1	50.00	Rv2711, TB
IAb	43	TVSRMERDGLLRVAG	MERDGLLRV	0.0322	35273.4	50.00	Rv2711, TB
IAb	42	QTVSRMERDGLLRVA	MERDGLLRV	0.0319	35388.8	50.00	Rv2711, TB
IAb	104	EHVMSEDEVRRLLVKV	HVMSEDEV	0.0306	35904.9	50.00	Rv2711, TB
IAb	41	SQTVSRMERDGLLRV	MERDGLLRV	0.0276	37076.2	50.00	Rv2711, TB
IAb	105	HVMSEDEVRRLLVKVL	HVMSEDEV	0.0231	38929.4	50.00	Rv2711, TB
IAb	106	VMSDEVRRLLVKVLN	VERRLLVKVL	0.0197	40395.6	50.00	Rv2711, TB

Allele: IAb. Number of high binders 0. Number of weak binders 17. Number of peptides 216

Allele	pos	peptide	core	l-log50k(aff)	affinity(nM)	Bind Level	%Random	Identity
IAd	65	EKGRALAIAMVRKHR	RALAIAMVR	0.4726	300.7	WB	0.80	Rv2711, TB
IAd	66	KGRALAIAMVRKHRL	RALAIAMVR	0.4706	307.4	WB	0.80	Rv2711, TB
IAd	64	TEKGRALAIAMVRKH	RALAIAMVR	0.4693	311.7	WB	0.80	Rv2711, TB
IAd	67	GRALAIAMVRKHRLA	RALAIAMVR	0.4497	385.4	WB	1.00	Rv2711, TB
IAd	63	LTEKGRALAIAMVRK	RALAIAMVR	0.4183	541.3		2.00	Rv2711, TB
IAd	215	TLPHEMAHAVKVEKV	AHAVKVEKV	0.4162	553.8		2.00	Rv2711, TB
IAd	68	RALAIAMVRKHRLAE	RALAIAMVR	0.3921	718.8		4.00	Rv2711, TB
IAd	180	ITRLKDGAVVPPNARV	LKDAGVVPN	0.3763	852.4		4.00	Rv2711, TB
IAd	147	DANLVRLTELPAGSP	LVRLTELP	0.3735	878.6		4.00	Rv2711, TB

IAd	148	ANLVRLTELPAGSPV	LVRLTELPA	0.3726	887.8	4.00	Rv2711, TB
IAd	179	LITRLKLDAGVVPNAR	LKDAGVVPN	0.3673	940.1	4.00	Rv2711, TB
IAd	145	ADDANLVRLTELPAG	LVRLTELPA	0.3670	942.5	4.00	Rv2711, TB
IAd	146	DDANLVRLTELPAGS	LVRLTELPA	0.3609	1007.3	4.00	Rv2711, TB
IAd	42	QTVSRMERDGLLRVA	MERDGLLRV	0.3596	1021.2	4.00	Rv2711, TB
IAd	178	DLITRLKLDAGVVPNA	LKDAGVVPN	0.3591	1026.7	4.00	Rv2711, TB
IAd	43	TVSRMERDGLLRVAG	MERDGLLRV	0.3418	1238.5	8.00	Rv2711, TB
IAd	44	VSRMERDGLLRVAGD	MERDGLLRV	0.3372	1301.1	8.00	Rv2711, TB
IAd	150	LVRLTELPAGSPVAV	LVRLTELPA	0.3333	1358.4	8.00	Rv2711, TB
IAd	181	TRLKLDAGVVPNARVT	LKDAGVVPN	0.3311	1390.8	8.00	Rv2711, TB
IAd	69	ALAIAVMRKHRLAER	ALAIAVMRK	0.3211	1550.1	8.00	Rv2711, TB
IAd	62	ELTEKGRALAIAVMR	RALAIAVMR	0.3208	1554.1	8.00	Rv2711, TB
IAd	149	NLVRLTELPAGSPVA	LVRLTELPA	0.3127	1697.4	8.00	Rv2711, TB
IAd	144	GADDANLVRLTELPA	LVRLTELPA	0.2983	1982.7	16.00	Rv2711, TB
IAd	45	SRMERDGLLRVAGDR	MERDGLLRV	0.2979	1991.1	16.00	Rv2711, TB
IAd	182	RLKLDAGVVPNARVTV	LKDAGVVPN	0.2919	2124.4	16.00	Rv2711, TB
IAd	41	SQTVSRMERDGLLRV	MERDGLLRV	0.2895	2179.9	16.00	Rv2711, TB
IAd	101	CRWEHVMSERVEDVRL	VMSEVERR	0.2877	2223.9	16.00	Rv2711, TB
IAd	75	MRKHRLAERLLVDVI	MRKHRLAER	0.2859	2268.5	16.00	Rv2711, TB
IAd	183	LKDAGVVPNARVTV	LKDAGVVPN	0.2798	2421.7	16.00	Rv2711, TB
IAd	79	RLAERLLVDVIGLPW	AERLLVDVI	0.2794	2431.3	16.00	Rv2711, TB
IAd	100	ACRWEHVMSERVEDVRL	VMSEVERR	0.2744	2567.1	16.00	Rv2711, TB
IAd	155	ELPAGSPVAVVVRQL	PVAVVVRQL	0.2665	2795.9	16.00	Rv2711, TB
IAd	80	LAERLLVDVIGLPWE	AERLLVDVI	0.2654	2831.1	16.00	Rv2711, TB
IAd	47	MERDGLLRVAGDRHL	ERDGLLRVA	0.2639	2877.9	16.00	Rv2711, TB
IAd	70	LAIAVMRKHRLAERL	MRKHRLAER	0.2636	2887.1	16.00	Rv2711, TB
IAd	78	HRLAERLLVDVIGLP	AERLLVDVI	0.2630	2905.7	16.00	Rv2711, TB
IAd	156	LPAGSPVAVVVRQLT	GSPVAVVVR	0.2627	2915.5	16.00	Rv2711, TB
IAd	77	KHRLAERLLVDVIGL	AERLLVDVI	0.2601	2996.0	16.00	Rv2711, TB
IAd	46	RMERDGLLRVAGDRH	MERDGLLRV	0.2597	3009.2	16.00	Rv2711, TB
IAd	76	RKHRLAERLLVDVIG	RKHRLAERL	0.2498	3352.0	16.00	Rv2711, TB
IAd	154	TELPAGSPVAVVVRQ	SPVAVVVRQ	0.2425	3626.4	32.00	Rv2711, TB
IAd	151	VRLTELPAGSPVAVV	VRLTELPAG	0.2401	3723.6	32.00	Rv2711, TB
IAd	19	EEGVTPLRARIAERL	LRARIAERL	0.2378	3814.7	32.00	Rv2711, TB
IAd	102	RWEHVMSERVEDVRLV	VMSEVERR	0.2375	3828.1	32.00	Rv2711, TB
IAd	72	IAVMRKHRLAERLLV	MRKHRLAER	0.2372	3838.4	32.00	Rv2711, TB
IAd	74	VMRKHRLAERLLVDV	MRKHRLAER	0.2363	3879.7	32.00	Rv2711, TB
IAd	177	IDLITRLKLDAGVVPN	LKDAGVVPN	0.2358	3900.3	32.00	Rv2711, TB
IAd	214	VTLPHEMAHAVKVEK	HEMAHAVKV	0.2267	4302.2	32.00	Rv2711, TB
IAd	71	AIAVMRKHRLAERLL	MRKHRLAER	0.2252	4374.6	32.00	Rv2711, TB
IAd	81	AERLLVDVIGLPWEE	AERLLVDVI	0.2237	4446.0	32.00	Rv2711, TB
IAd	48	ERDGLLRVAGDRHLE	ERDGLLRVA	0.2214	4557.6	32.00	Rv2711, TB
IAd	103	WEHVMSERVEDVRLV	VMSEVERR	0.2207	4591.1	32.00	Rv2711, TB
IAd	16	LEEEGVTPLRARIA	LEEEGVTP	0.2206	4596.4	32.00	Rv2711, TB
IAd	73	AVMRKHRLAERLLVD	MRKHRLAER	0.2171	4772.5	32.00	Rv2711, TB
IAd	169	LTEHVQGDIDLITRL	VQGDIDLIT	0.2112	5085.7	32.00	Rv2711, TB
IAd	157	PAGSPVAVVVRQLTE	SPVAVVVRQ	0.2103	5137.8	32.00	Rv2711, TB
IAd	153	LTELPAGSPVAVVVR	LPAGSPVAV	0.2053	5424.2	32.00	Rv2711, TB
IAd	159	GSPVAVVVRQLTEHV	SPVAVVVRQ	0.2027	5580.1	32.00	Rv2711, TB
IAd	17	LEEEGVTPLRARIAE	LEEEGVTP	0.2014	5656.3	32.00	Rv2711, TB
IAd	170	TEHVQGDIDLITRLK	VQGDIDLIT	0.2013	5666.3	32.00	Rv2711, TB
IAd	171	EHVQGDIDLITRLKD	HVQGDIDLIT	0.2000	5743.1	32.00	Rv2711, TB
IAd	15	YDLEEEGVTPLRARI	LEEEGVTP	0.1946	6091.7	32.00	Rv2711, TB
IAd	14	IYDLEEEGVTPLRAR	LEEEGVTP	0.1901	6394.0	32.00	Rv2711, TB
IAd	160	SPVAVVVRQLTEHVQ	PVAVVVRQL	0.1882	6528.8	32.00	Rv2711, TB
IAd	99	EACRWEHVMSERVEDV	WEHVMSEDV	0.1875	6577.4	32.00	Rv2711, TB
IAd	143	PGADDANLVRLTELP	ANLVRLTEL	0.1842	6811.5	32.00	Rv2711, TB
IAd	18	EEEGVTPLRARIAER	EEGVTP	0.1816	7009.4	32.00	Rv2711, TB
IAd	106	VMSEDERRLVKVLN	VMSEVERR	0.1807	7078.6	32.00	Rv2711, TB
IAd	13	TIYDLEEEGVTP	LEEEGVTP	0.1795	7170.3	32.00	Rv2711, TB
IAd	21	GVTPLRARIAERLDQ	LRARIAERL	0.1767	7387.4	50.00	Rv2711, TB
IAd	168	QLTEHVQGDIDLITR	QGDIDLITR	0.1764	7411.0	50.00	Rv2711, TB
IAd	20	EGVTPLRARIAERLD	LRARIAERL	0.1764	7412.2	50.00	Rv2711, TB
IAd	98	AEACRWEHVMSERVEDV	CRWEHVMS	0.1755	7487.0	50.00	Rv2711, TB
IAd	158	AGSPVAVVVRQLTEH	SPVAVVVRQ	0.1735	7647.4	50.00	Rv2711, TB
IAd	61	LELTEKGRALAIAVM	GRALAIAVM	0.1729	7702.8	50.00	Rv2711, TB
IAd	152	RTELPAGSPVAVVV	LPAGSPVAV	0.1695	7989.1	50.00	Rv2711, TB
IAd	210	GHENVTLPHEMAHAV	GHENVTLP	0.1695	7990.8	50.00	Rv2711, TB
IAd	104	EHVMSERVEDVRLVKV	VMSEVERR	0.1687	8059.5	50.00	Rv2711, TB
IAd	22	VTPLRARIAERLDQS	LRARIAERL	0.1675	8162.7	50.00	Rv2711, TB
IAd	184	KDAGVVPNARVTVET	KDAGVVPNA	0.1664	8259.6	50.00	Rv2711, TB
IAd	105	HVMSERVEDVRLVKVL	VMSEVERR	0.1648	8402.0	50.00	Rv2711, TB
IAd	172	HVQGDIDLITRLKDA	HVQGDIDLIT	0.1641	8471.9	50.00	Rv2711, TB
IAd	161	PVAVVVRQLTEHVQ	PVAVVVRQL	0.1636	8515.8	50.00	Rv2711, TB
IAd	40	VSQTVSRMERDGLLR	RMERDGLLR	0.1632	8549.6	50.00	Rv2711, TB
IAd	97	HAEACRWEHVMSERVEDV	CRWEHVMS	0.1584	9008.2	50.00	Rv2711, TB
IAd	212	ENVTLPHEMAHAVKV	HEMAHAVKV	0.1577	9076.0	50.00	Rv2711, TB

IAd	209	PGHENVTLPHEMAHA	GHENVTLP	0.1564	9207.4	50.00	Rv2711, TB
IAd	213	NVTLPHEMAHAVKVE	HEMAHAVKV	0.1559	9256.0	50.00	Rv2711, TB
IAd	24	PLRARIAERLDQSGP	LRARIAERL	0.1558	9270.3	50.00	Rv2711, TB
IAd	107	MSEDVERRLVKVLNN	RRLVKVLNN	0.1545	9395.4	50.00	Rv2711, TB
IAd	189	VPNARVTVETTPGGG	NARVTVETT	0.1529	9557.0	50.00	Rv2711, TB
IAd	23	TPLRARIAERLDQSG	LRARIAERL	0.1528	9566.7	50.00	Rv2711, TB
IAd	109	EDVERRLVKVLNNPT	RRLVKVLNN	0.1527	9582.3	50.00	Rv2711, TB
IAd	208	IPGHENVTLPHEMAH	GHENVTLP	0.1508	9776.9	50.00	Rv2711, TB
IAd	110	DVERRLVKVLNNPTT	RRLVKVLNN	0.1504	9827.8	50.00	Rv2711, TB
IAd	190	PNARVTVETTPGGGV	NARVTVETT	0.1480	10077.2	50.00	Rv2711, TB
IAd	188	VVPNARVTVETTPGG	NARVTVETT	0.1473	10158.0	50.00	Rv2711, TB
IAd	95	EVHAEACRWEHVMS	AEACRWEHV	0.1470	10196.3	50.00	Rv2711, TB
IAd	142	EPGADDANLVRLETEL	ANLVRLETEL	0.1464	10262.6	50.00	Rv2711, TB
IAd	207	VIPGHENVTLPHEMA	GHENVTLP	0.1440	10527.8	50.00	Rv2711, TB
IAd	111	VERRLVKVLNNPTTS	RRLVKVLNN	0.1433	10609.5	50.00	Rv2711, TB
IAd	108	SEVERRLVKVLNNP	RRLVKVLNN	0.1412	10855.2	50.00	Rv2711, TB
IAd	96	VHAEACRWEHVMS	AEACRWEHV	0.1407	10906.2	50.00	Rv2711, TB
IAd	82	ERLLVDVIGLPWEEV	RLLVDVIGL	0.1403	10961.7	50.00	Rv2711, TB
IAd	12	RTIYDLEEEGVTPLR	LEEEGVTP	0.1401	10975.8	50.00	Rv2711, TB
IAd	211	HENVTLPEMAHAVK	LPHEMAHAV	0.1385	11173.1	50.00	Rv2711, TB
IAd	94	EEVHAEACRWEHVMS	AEACRWEHV	0.1345	11668.9	50.00	Rv2711, TB
IAd	39	TVSQTVSRMERDGLL	TVSQTVSRM	0.1323	11952.8	50.00	Rv2711, TB
IAd	11	LRTIYDLEEEGVTP	LEEEGVTP	0.1315	12057.5	50.00	Rv2711, TB
IAd	173	VQGDIDLITRLKDG	GDIDLITRL	0.1314	12069.1	50.00	Rv2711, TB
IAd	49	RDGLLRVAGDRHLEL	LRVAGDRHL	0.1313	12074.1	50.00	Rv2711, TB
IAd	187	GVVPNARVTVETTPG	NARVTVETT	0.1312	12094.4	50.00	Rv2711, TB
IAd	162	VAVVVRQLTEHVQGD	VAVVVRQLT	0.1295	12313.3	50.00	Rv2711, TB
IAd	6	TTEMYLRTIYDLEEE	LRTIYDLEE	0.1281	12502.4	50.00	Rv2711, TB
IAd	167	RQLTEHVQGDIDLIT	HVQGDIDLIT	0.1267	12689.5	50.00	Rv2711, TB
IAd	38	PTVSQTVSRMERDGL	TVSQTVSRM	0.1251	12916.4	50.00	Rv2711, TB
IAd	206	IVIPGHENVTLPHEM	GHENVTLP	0.1230	13210.1	50.00	Rv2711, TB
IAd	25	LRARIAERLDQSGPT	LRARIAERL	0.1220	13355.6	50.00	Rv2711, TB
IAd	90	GLPWEEVHAEACRWE	LPWEEVHAE	0.1219	13375.2	50.00	Rv2711, TB
IAd	53	LRVAGDRHLELTEKG	RHLELTEKG	0.1217	13393.2	50.00	Rv2711, TB
IAd	3	LVDTTEMYLRTIYDL	TTEMYLRTI	0.1212	13465.9	50.00	Rv2711, TB
IAd	91	LPWEEVHAEACRWEH	HAEACRWEH	0.1204	13588.7	50.00	Rv2711, TB
IAd	5	DTTEMYLRTIYDLEE	TTEMYLRTI	0.1203	13598.8	50.00	Rv2711, TB
IAd	191	NARVTVETTPGGGVT	NARVTVETT	0.1201	13640.9	50.00	Rv2711, TB
IAd	36	SGPTVSQTVSRMERD	VSQTVSRME	0.1176	14015.4	50.00	Rv2711, TB
IAd	37	GPTVSQTVSRMERDG	TVSQTVSRM	0.1171	14078.9	50.00	Rv2711, TB
IAd	164	VVVRQLTEHVQGDID	VRQLTEHVQ	0.1168	14125.6	50.00	Rv2711, TB
IAd	4	VDTTEMYLRTIYDLE	TTEMYLRTI	0.1168	14132.8	50.00	Rv2711, TB
IAd	165	VVRQLTEHVQGDIDL	VRQLTEHVQ	0.1159	14275.4	50.00	Rv2711, TB
IAd	163	AVVVRQLTEHVQGD	VRQLTEHVQ	0.1157	14291.8	50.00	Rv2711, TB
IAd	92	PWEEVHAEACRWEHV	WEEVHAEAC	0.1154	14341.1	50.00	Rv2711, TB
IAd	58	DRHLELTEKGRALAI	RHLELTEKG	0.1144	14503.5	50.00	Rv2711, TB
IAd	50	DGLLRVAGDRHLELT	LRVAGDRHL	0.1142	14534.0	50.00	Rv2711, TB
IAd	131	IPGLVELGVGPEPGA	PGLVELGVG	0.1138	14598.5	50.00	Rv2711, TB
IAd	59	RHLELTEKGRALAI	RHLELTEKG	0.1138	14600.4	50.00	Rv2711, TB
IAd	55	VAGDRHLELTEKGRA	RHLELTEKG	0.1133	14678.1	50.00	Rv2711, TB
IAd	57	GDRHLELTEKGRALA	RHLELTEKG	0.1118	14910.6	50.00	Rv2711, TB
IAd	112	ERRLVKVLNNPTTSP	RRLVKVLNN	0.1117	14931.4	50.00	Rv2711, TB
IAd	166	VRQLTEHVQGDIDLIT	HVQGDIDLIT	0.1103	15157.6	50.00	Rv2711, TB
IAd	205	TIVIPGHENVTLPHE	GHENVTLP	0.1089	15396.5	50.00	Rv2711, TB
IAd	93	WEEVHAEACRWEHVM	WEEVHAEAC	0.1086	15445.5	50.00	Rv2711, TB
IAd	35	QSGPTVSQTVSRMER	VSQTVSRME	0.1076	15613.7	50.00	Rv2711, TB
IAd	174	QGDIDLITRLKDGAV	QGDIDLITR	0.1072	15669.2	50.00	Rv2711, TB
IAd	9	MYLRTIYDLEEEGV	MYLRTIYDL	0.1062	15842.3	50.00	Rv2711, TB
IAd	186	AGVVPNARVTVETTP	NARVTVETT	0.1056	15955.5	50.00	Rv2711, TB
IAd	54	RVAGDRHLELTEKGR	RHLELTEKG	0.1035	16313.8	50.00	Rv2711, TB
IAd	60	HLELTEKGRALAI	KGRALAI	0.1034	16336.1	50.00	Rv2711, TB
IAd	30	AERLDQSGPTVSQTV	ERLDQSGPT	0.1031	16384.2	50.00	Rv2711, TB
IAd	202	GGVTIVIPGHENVT	GGVTIVIPG	0.1009	16776.9	50.00	Rv2711, TB
IAd	52	LLRVAGDRHLELTEK	LRVAGDRHL	0.1002	16912.5	50.00	Rv2711, TB
IAd	34	DQSGPTVSQTVSRME	VSQTVSRME	0.0999	16965.7	50.00	Rv2711, TB
IAd	185	DAGVVPNARVTVETT	NARVTVETT	0.0998	16988.1	50.00	Rv2711, TB
IAd	85	LVDVIGLPWEEVHAE	LVDVIGLPW	0.0987	17190.9	50.00	Rv2711, TB
IAd	89	IGLPWEEVHAEACRW	WEEVHAEAC	0.0981	17297.6	50.00	Rv2711, TB
IAd	56	AGDRHLELTEKGRAL	RHLELTEKG	0.0980	17315.8	50.00	Rv2711, TB
IAd	130	PIPGLVELGVGPEPG	PGLVELGVG	0.0980	17317.3	50.00	Rv2711, TB
IAd	201	GGGVTIVIPGHENVT	GGVTIVIPG	0.0976	17384.5	50.00	Rv2711, TB
IAd	200	PGGGVTIVIPGHENV	GGVTIVIPG	0.0970	17498.3	50.00	Rv2711, TB
IAd	29	IAERLDQSGPTVSQ	ERLDQSGPT	0.0966	17578.8	50.00	Rv2711, TB
IAd	129	NPVGLVELGVGPEPG	PGLVELGVG	0.0966	17586.6	50.00	Rv2711, TB
IAd	28	RIAERLDQSGPTVSQ	ERLDQSGPT	0.0963	17636.9	50.00	Rv2711, TB
IAd	33	LDQSGPTVSQTVSRM	PTVSQTVSR	0.0961	17673.2	50.00	Rv2711, TB
IAd	51	GLLRVAGDRHLELTE	LRVAGDRHL	0.0948	17936.7	50.00	Rv2711, TB

IAd	128	GNPIPLVLELGVGPE	PGLVELGVG	0.0938	18114.0	50.00	Rv2711, TB
IAd	27	ARIAERLDQSGPTVS	RIAERLDQS	0.0937	18137.3	50.00	Rv2711, TB
IAd	10	YLRTIYDLEEEGVTP	LRTIYDLEE	0.0933	18221.7	50.00	Rv2711, TB
IAd	8	EMYLRTIYDLEEEGV	MYLRTIYDL	0.0931	18259.0	50.00	Rv2711, TB
IAd	88	VIGLPWEEVHAEACR	GLPWEEVHA	0.0931	18264.5	50.00	Rv2711, TB
IAd	141	PEPGADDANLVRLTE	ADDANLVRL	0.0925	18381.1	50.00	Rv2711, TB
IAd	83	RLLDVIGLPWEEVH	RLLVDVIGL	0.0919	18494.4	50.00	Rv2711, TB
IAd	199	TPGGGVTIVIPGHE	GGVTIVIPG	0.0915	18580.5	50.00	Rv2711, TB
IAd	31	ERLDQSGPTVSQTVS	LDQSGPTVS	0.0902	18843.4	50.00	Rv2711, TB
IAd	140	GPEPGADDANLVRLT	ADDANLVRL	0.0902	18845.1	50.00	Rv2711, TB
IAd	87	DVIGLPWEEVHAEAC	GLPWEEVHA	0.0897	18942.0	50.00	Rv2711, TB
IAd	139	VGPEPGADDANLVRL	ADDANLVRL	0.0895	18975.6	50.00	Rv2711, TB
IAd	132	PGLVELGVGPEPGAD	PGLVELGVG	0.0881	19276.5	50.00	Rv2711, TB
IAd	7	TEMYLRTIYDLEEEG	MYLRTIYDL	0.0880	19291.5	50.00	Rv2711, TB
IAd	175	GDIDLITRLKDGAVV	TRLKDGAVV	0.0867	19577.3	50.00	Rv2711, TB
IAd	32	RLDQSGPTVSQTVSR	PTVSQTVSR	0.0857	19775.7	50.00	Rv2711, TB
IAd	0	MNELVDTTTEMYLRTI	TTEMYLRTI	0.0848	19979.2	50.00	Rv2711, TB
IAd	26	RARIAERLDQSGPTV	ARIAERLDQ	0.0830	20379.1	50.00	Rv2711, TB
IAd	176	DIDLITRLKDGAVVP	TRLKDGAVV	0.0824	20490.8	50.00	Rv2711, TB
IAd	113	RLLVKVLNNPTTSPF	RRLVKVLNN	0.0794	21183.3	50.00	Rv2711, TB
IAd	198	TTPGGGVTIVIPGHE	GGVTIVIPG	0.0787	21345.5	50.00	Rv2711, TB
IAd	86	VDVIGLPWEEVHAEA	VIGLPWEEV	0.0777	21559.1	50.00	Rv2711, TB
IAd	84	LLVDVIGLPWEEVHA	LVDVIGLPW	0.0777	21581.5	50.00	Rv2711, TB
IAd	127	FGNPIPGLVELGVGP	PGLVELGVG	0.0765	21854.0	50.00	Rv2711, TB
IAd	2	ELVDTTTEMYLRTIYD	TTEMYLRTI	0.0751	22180.6	50.00	Rv2711, TB
IAd	204	VTIVIPGHENVTLPH	GHENVTLPH	0.0731	22661.4	50.00	Rv2711, TB
IAd	126	PFGNPIPGLVELGVG	PGLVELGVG	0.0688	23742.2	50.00	Rv2711, TB
IAd	1	NELVDTTTEMYLRTIY	TTEMYLRTI	0.0672	24159.7	50.00	Rv2711, TB
IAd	192	ARVTVETTPGGGVTI	RVTVETTPG	0.0628	25338.2	50.00	Rv2711, TB
IAd	197	ETTPGGGVTIVIPGH	GGVTIVIPG	0.0618	25613.0	50.00	Rv2711, TB
IAd	203	GVTIVIPGHENVTLPL	GVTIVIPGH	0.0566	27091.9	50.00	Rv2711, TB
IAd	133	GLVELGVGPEPGADD	LVELGVGPE	0.0461	30373.1	50.00	Rv2711, TB
IAd	114	RLVKVLNNPTTSPFG	RLVKVLNNP	0.0459	30429.0	50.00	Rv2711, TB
IAd	125	SPFGNPIPGLVELGV	IPGLVELGV	0.0437	31152.5	50.00	Rv2711, TB
IAd	134	LVELGVGPEPGADDA	LVELGVGPE	0.0423	31638.0	50.00	Rv2711, TB
IAd	115	LVKVLNNPTTSPFGN	VKVLNNPTT	0.0402	32374.8	50.00	Rv2711, TB
IAd	193	RVTVETTPGGGVTIV	RVTVETTPG	0.0390	32782.7	50.00	Rv2711, TB
IAd	138	GVGPEPGADDANLVR	PGADDANLV	0.0349	34273.8	50.00	Rv2711, TB
IAd	196	VETTPGGGVTIVIPG	GGVTIVIPG	0.0334	34838.7	50.00	Rv2711, TB
IAd	119	LNNPTTSPFGNPIPG	LNNPTTSPF	0.0332	34904.7	50.00	Rv2711, TB
IAd	137	LGVGPEPGADDANLV	PGADDANLV	0.0307	35879.2	50.00	Rv2711, TB
IAd	116	VKVLNNPTTSPFGNP	VKVLNNPTT	0.0301	36096.9	50.00	Rv2711, TB
IAd	118	LNNPTTSPFGNPIP	LNNPTTSPF	0.0271	37276.1	50.00	Rv2711, TB
IAd	135	VELGVGPEPGADDAN	ELGVGPEPG	0.0269	37381.1	50.00	Rv2711, TB
IAd	117	KVLNNPTTSPFGNPI	LNNPTTSPF	0.0256	37911.4	50.00	Rv2711, TB
IAd	136	ELGVGPEPGADDANL	ELGVGPEPG	0.0254	37974.7	50.00	Rv2711, TB
IAd	120	NNPTTSPFGNPIPLG	PTTSPFGNP	0.0128	43550.9	50.00	Rv2711, TB
IAd	121	NPTTSPFGNPIPLGL	PTTSPFGNP	0.0115	44162.5	50.00	Rv2711, TB
IAd	124	TSPFGNPIPLGLVEL	SPFGNPIPG	0.0106	44599.0	50.00	Rv2711, TB
IAd	123	TTSFGNPIPLGLVEL	NPIPLGLVEL	0.0100	44883.7	50.00	Rv2711, TB
IAd	122	PTTSPFGNPIPLGLV	SPFGNPIPG	0.0095	45139.9	50.00	Rv2711, TB
IAd	195	TVETTPGGGVTIVIP	GGGVTIVIP	0.0093	45202.4	50.00	Rv2711, TB
IAd	194	VTVETTPGGGVTIVI	VTVETTPGG	0.0092	45259.7	50.00	Rv2711, TB

Allele: IAd. Number of high binders 0. Number of weak binders 4. Number of peptides 216

Allele	pos	peptide	core	l-log50k(aff)	affinity(nM)	Bind Level	%Random	Identity
IAs	198	TTPGGGVTIVIPGHE	VTIVIPGHE	0.2835	2327.8	4.00	Rv2711, TB	
IAs	206	IVIPGHENVTLPHHEM	ENVTLPHHEM	0.2818	2369.4	4.00	Rv2711, TB	
IAs	111	VERRLVKVLNNPTTTS	KVLNNPTTTS	0.2791	2439.7	4.00	Rv2711, TB	
IAs	199	TPGGGVTIVIPGHE	VTIVIPGHE	0.2749	2553.7	4.00	Rv2711, TB	
IAs	112	ERRLVKVLNNPTTSP	KVLNNPTTTS	0.2733	2598.4	4.00	Rv2711, TB	
IAs	62	ELTEKGRALAIAMVR	RALAIAMVR	0.2717	2644.0	4.00	Rv2711, TB	
IAs	200	PGGGVTIVIPGHENV	VTIVIPGHE	0.2697	2702.6	4.00	Rv2711, TB	
IAs	201	GGGVTIVIPGHENV	VTIVIPGHE	0.2686	2732.7	4.00	Rv2711, TB	
IAs	113	RRLVKVLNNPTTSPF	KVLNNPTTTS	0.2684	2740.2	4.00	Rv2711, TB	
IAs	207	VIPGHENVTLPHHEMA	ENVTLPHHEM	0.2671	2779.0	4.00	Rv2711, TB	
IAs	64	TEKGRALAIAMVRKH	RALAIAMVR	0.2637	2882.3	8.00	Rv2711, TB	
IAs	114	RLVKVLNNPTTSPFG	RLVKVLNNP	0.2634	2891.1	8.00	Rv2711, TB	
IAs	211	HENVTLPHHEMAHAVK	ENVTLPHHEM	0.2587	3044.9	8.00	Rv2711, TB	
IAs	63	LTEKGRALAIAMVRK	RALAIAMVR	0.2577	3075.9	8.00	Rv2711, TB	
IAs	208	IPGHENVTLPHHEMAH	ENVTLPHHEM	0.2554	3154.2	8.00	Rv2711, TB	
IAs	65	EKGRALAIAMVRKHR	RALAIAMVR	0.2553	3155.7	8.00	Rv2711, TB	

IAS	210	GHENVTLPHEMAHAV	ENVTLPHM	0.2492	3371.9	8.00	Rv2711, TB
IAS	209	PGHENVTLPHEMAHA	ENVTLPHM	0.2476	3430.4	8.00	Rv2711, TB
IAS	110	DVERRLVKVLNNPTT	RLVKVLNNP	0.2163	4815.8	8.00	Rv2711, TB
IAS	67	GRALAIAMVRKHLRLA	RALAIAMVR	0.2154	4862.0	8.00	Rv2711, TB
IAS	66	KGRALAIAMVRKHLRL	RALAIAMVR	0.2091	5204.8	16.00	Rv2711, TB
IAS	202	GGVTIVIPGHENVTLP	VTIVIPGHE	0.2011	5673.1	16.00	Rv2711, TB
IAS	197	ETTPGGGVTVIVIPGH	GGGVTVIVIP	0.1957	6018.5	16.00	Rv2711, TB
IAS	108	SEDEVERRLVKVLNNP	RLVKVLNNP	0.1929	6202.2	16.00	Rv2711, TB
IAS	109	EDVERRLVKVLNNPT	RLVKVLNNP	0.1881	6533.6	16.00	Rv2711, TB
IAS	203	GVTVIVIPGHENVTLP	VTIVIPGHE	0.1877	6563.3	16.00	Rv2711, TB
IAS	83	RLLDVIGLWPWEEVH	LLVDVIGLP	0.1666	8239.3	16.00	Rv2711, TB
IAS	84	LLVDVIGLWPWEEVHA	LLVDVIGLP	0.1661	8288.6	16.00	Rv2711, TB
IAS	68	RALAIAMVRKHLRLAE	RALAIAMVR	0.1631	8559.7	16.00	Rv2711, TB
IAS	81	AERLLVDVIGLWPWEE	DVIGLWPWEE	0.1597	8884.8	32.00	Rv2711, TB
IAS	22	VTPLRARIERLDQS	RIAERLDQS	0.1590	8947.9	32.00	Rv2711, TB
IAS	82	ERLLVDVIGLWPWEEV	LLVDVIGLP	0.1561	9233.7	32.00	Rv2711, TB
IAS	196	VETTPGGGVTVIVIPG	GGGVTVIVIP	0.1513	9729.8	32.00	Rv2711, TB
IAS	78	HRLAERLLVDVIGLPL	LLVDVIGLP	0.1505	9808.4	32.00	Rv2711, TB
IAS	116	KVLNNPTTSPFGNP	KVLNNPTTS	0.1499	9878.5	32.00	Rv2711, TB
IAS	212	ENVTLPHMAHAVKV	ENVTLPHM	0.1485	10029.0	32.00	Rv2711, TB
IAS	23	TPLRARIAERLDQSG	RIAERLDQS	0.1472	10168.5	32.00	Rv2711, TB
IAS	98	AEACRWEHVMSERVED	EHVMSERVED	0.1470	10191.2	32.00	Rv2711, TB
IAS	80	LAERLLVDVIGLWPWE	LLVDVIGLP	0.1462	10274.8	32.00	Rv2711, TB
IAS	115	LVKVLNNPTTSPFGN	KVLNNPTTS	0.1456	10344.8	32.00	Rv2711, TB
IAS	79	RLAERLLVDVIGLPLW	LLVDVIGLP	0.1439	10537.4	32.00	Rv2711, TB
IAS	24	PLRARIAERLDQSGP	RIAERLDQS	0.1437	10565.3	32.00	Rv2711, TB
IAS	121	NPTTSPFGNPIPGLV	SPFGNPIPG	0.1425	10698.0	32.00	Rv2711, TB
IAS	61	LELTEKGRALAIAMV	EKGRALAI	0.1423	10725.2	32.00	Rv2711, TB
IAS	122	PTTSPFGNPIPGLVE	SPFGNPIPG	0.1369	11370.0	32.00	Rv2711, TB
IAS	25	LRARIAERLDQSGPT	RIAERLDQS	0.1362	11451.9	32.00	Rv2711, TB
IAS	205	TIVIPGHENVTLPHE	PGHENVTLP	0.1318	12010.2	32.00	Rv2711, TB
IAS	27	ARIAERLDQSGPTVS	RIAERLDQS	0.1310	12116.9	32.00	Rv2711, TB
IAS	119	LNNPTTSPFGNPIPG	SPFGNPIPG	0.1307	12155.4	32.00	Rv2711, TB
IAS	70	LAIAMVRKHLRLAERL	LAIAMVRKH	0.1290	12377.8	32.00	Rv2711, TB
IAS	123	TTSFGNPIPGLVEL	SPFGNPIPG	0.1282	12490.1	32.00	Rv2711, TB
IAS	26	RARIAERLDQSGPTV	RIAERLDQS	0.1279	12531.0	32.00	Rv2711, TB
IAS	187	GVVFNARVTVETTPG	ARVTVETTP	0.1275	12588.9	32.00	Rv2711, TB
IAS	130	PIVGLVELGVGPEPE	VELGVGPEP	0.1267	12696.8	32.00	Rv2711, TB
IAS	188	VVFNARVTVETTPGG	ARVTVETTP	0.1265	12725.8	32.00	Rv2711, TB
IAS	189	VFNARVTVETTPGGG	ARVTVETTP	0.1251	12916.7	32.00	Rv2711, TB
IAS	183	LKDAGVVPNARVTVE	KDAGVVPNA	0.1237	13107.2	32.00	Rv2711, TB
IAS	36	SGPTVSQTVSRMERD	QTVSRMERD	0.1232	13182.0	32.00	Rv2711, TB
IAS	181	TRLKDAGVVPNARVT	KDAGVVPNA	0.1222	13324.8	32.00	Rv2711, TB
IAS	35	QSGPTVSQTVSRMER	VSQTVSRME	0.1217	13405.4	32.00	Rv2711, TB
IAS	135	VELGVGPEPGADDAN	VELGVGPEP	0.1215	13434.7	32.00	Rv2711, TB
IAS	120	NNPTTSPFGNPIPGL	SPFGNPIPG	0.1208	13538.2	32.00	Rv2711, TB
IAS	69	ALAIAMVRKHLRLAER	LAIAMVRKH	0.1206	13563.4	32.00	Rv2711, TB
IAS	131	IPGLVELGVGPEPGA	VELGVGPEP	0.1204	13590.4	32.00	Rv2711, TB
IAS	53	LRVAGDRHLELTEKGR	RHLELTEKGR	0.1204	13592.3	32.00	Rv2711, TB
IAS	184	KDAGVVPNARVTVET	KDAGVVPNA	0.1201	13627.1	32.00	Rv2711, TB
IAS	134	VELGVGPEPGADDA	VELGVGPEP	0.1201	13636.7	32.00	Rv2711, TB
IAS	117	KVLNNPTTSPFGNPI	KVLNNPTTS	0.1198	13682.5	32.00	Rv2711, TB
IAS	192	ARVTVETTPGGGVTVI	ARVTVETTP	0.1194	13735.1	32.00	Rv2711, TB
IAS	136	ELGVGPEPGADDANL	ELGVGPEPG	0.1170	14093.1	32.00	Rv2711, TB
IAS	180	ITRLKDAGVVPNARV	KDAGVVPNA	0.1170	14105.6	32.00	Rv2711, TB
IAS	191	NARVTVETTPGGGVTV	ARVTVETTP	0.1165	14174.0	32.00	Rv2711, TB
IAS	182	RLKDAGVVPNARVTV	KDAGVVPNA	0.1164	14194.7	32.00	Rv2711, TB
IAS	132	PGLVELGVGPEPGAD	VELGVGPEP	0.1158	14284.1	32.00	Rv2711, TB
IAS	195	TVETTPGGGVTVIVIP	GGGVTVIVIP	0.1157	14302.2	32.00	Rv2711, TB
IAS	37	GPTVSQTVSRMERDGL	QTVSRMERD	0.1152	14374.8	32.00	Rv2711, TB
IAS	133	GLVELGVGPEPGADD	VELGVGPEP	0.1142	14537.9	32.00	Rv2711, TB
IAS	179	LITRLKDAGVVPNAR	KDAGVVPNA	0.1141	14545.5	32.00	Rv2711, TB
IAS	204	VTIVIPGHENVTLP	VTIVIPGHE	0.1127	14774.8	32.00	Rv2711, TB
IAS	124	TSPFGNPIPGLVELG	SPFGNPIPG	0.1117	14928.9	32.00	Rv2711, TB
IAS	34	DQSGPTVSQTVSRME	VSQTVSRME	0.1103	15159.9	50.00	Rv2711, TB
IAS	190	PNARVTVETTPGGGV	ARVTVETTP	0.1097	15257.5	50.00	Rv2711, TB
IAS	125	SPFGNPIPGLVELGV	SPFGNPIPG	0.1089	15396.1	50.00	Rv2711, TB
IAS	39	TVSQTVSQTVSRMERD	QTVSRMERD	0.1088	15399.5	50.00	Rv2711, TB
IAS	28	RIAERLDQSGPTVSQ	RIAERLDQS	0.1088	15412.5	50.00	Rv2711, TB
IAS	54	RVAGDRHLELTEKGR	RHLELTEKGR	0.1069	15721.4	50.00	Rv2711, TB
IAS	1	NELVDTTTEMYLRTIY	ELVDTTTEMY	0.1067	15755.4	50.00	Rv2711, TB
IAS	59	RHLELTEKGRALAI	RHLELTEKGR	0.1058	15909.4	50.00	Rv2711, TB
IAS	38	PTVSQTVSRMERDGL	QTVSRMERD	0.1050	16062.0	50.00	Rv2711, TB
IAS	99	EACRWEHVMSERVED	EHVMSERVED	0.1045	16132.2	50.00	Rv2711, TB
IAS	6	TTEMYLRTIYDLEEE	RTIYDLEEE	0.1037	16286.3	50.00	Rv2711, TB
IAS	40	VSQTVSRMERDGLLR	QTVSRMERD	0.1030	16406.4	50.00	Rv2711, TB
IAS	33	LDQSGPTVSQTVSRM	QSGPTVSQT	0.1006	16841.5	50.00	Rv2711, TB



IAs	186	AGVVPNARVTVETTP	ARVTVETTP	0.1005	16863.7	50.00	Rv2711, TB
IAs	149	NLVRLTELPAGSPVA	NLVRLTELP	0.0996	17011.6	50.00	Rv2711, TB
IAs	32	RLDQSGPTVSQTVSR	GPTVSQTVS	0.0988	17169.5	50.00	Rv2711, TB
IAs	148	ANLVRLTELPAGSPV	NLVRLTELP	0.0987	17187.9	50.00	Rv2711, TB
IAs	31	ERLDQSGPTVSQTVS	ERLDQSGPT	0.0977	17380.4	50.00	Rv2711, TB
IAs	55	VAGDRHLELTEKGRA	RHLELTEKG	0.0974	17423.3	50.00	Rv2711, TB
IAs	41	SQTVSRMERDGLLRV	QTVSRMERD	0.0974	17425.8	50.00	Rv2711, TB
IAs	0	MNELVDTTTEMYLRTI	ELVDTTTEMY	0.0970	17501.7	50.00	Rv2711, TB
IAs	178	DLITRLKDGAVVPNA	KDAGVVPNA	0.0961	17673.4	50.00	Rv2711, TB
IAs	58	DRHLELTEKGRALAI	RHLELTEKG	0.0941	18065.6	50.00	Rv2711, TB
IAs	100	ACRWEHVMSERVED	EHVMSERVED	0.0936	18166.6	50.00	Rv2711, TB
IAs	73	AVMRKHRLAERLLVD	RLAERLLVD	0.0925	18376.1	50.00	Rv2711, TB
IAs	215	TLPHEMAHAVKVEKV	AHAVKVEKV	0.0925	18380.3	50.00	Rv2711, TB
IAs	2	ELVDTTTEMYLRTIYD	ELVDTTTEMY	0.0924	18404.0	50.00	Rv2711, TB
IAs	143	PGADDANLVRLTELP	NLVRLTELP	0.0922	18441.5	50.00	Rv2711, TB
IAs	57	GDRHLELTEKGRALA	RHLELTEKG	0.0918	18527.9	50.00	Rv2711, TB
IAs	92	PWEEVHAEACRWEHV	AEACRWEHV	0.0908	18721.1	50.00	Rv2711, TB
IAs	144	GADDANLVRLTELPA	NLVRLTELP	0.0908	18723.8	50.00	Rv2711, TB
IAs	96	VHAEACRWEHVMSED	VHAEACRWE	0.0903	18812.5	50.00	Rv2711, TB
IAs	56	AGDRHLELTEKGRAL	RHLELTEKG	0.0902	18849.2	50.00	Rv2711, TB
IAs	21	GVTPLRARIAERLDQ	LRARIAERL	0.0900	18888.4	50.00	Rv2711, TB
IAs	42	QTVSRMERDGLLRVA	QTVSRMERD	0.0895	18990.4	50.00	Rv2711, TB
IAs	93	WEEVHAEACRWEHVM	VHAEACRWE	0.0894	19001.7	50.00	Rv2711, TB
IAs	30	AERLDQSGPTVSQTV	ERLDQSGPT	0.0891	19069.1	50.00	Rv2711, TB
IAs	161	PVAVVVRQLTEHVQG	PVAVVVRQL	0.0882	19261.1	50.00	Rv2711, TB
IAs	214	VTLPEMAHAVKVEK	EMAHAVKVE	0.0874	19431.0	50.00	Rv2711, TB
IAs	102	RWEHVMSERVEDVRLV	EHVMSERVED	0.0873	19441.6	50.00	Rv2711, TB
IAs	147	DANLVRLTELPAGSP	NLVRLTELP	0.0867	19559.7	50.00	Rv2711, TB
IAs	94	EEVHAEACRWEHVMS	VHAEACRWE	0.0867	19569.5	50.00	Rv2711, TB
IAs	7	TEMYLRTIYDLEEEG	RTIYDLEEE	0.0864	19638.4	50.00	Rv2711, TB
IAs	146	DDANLVRLTELPAGS	NLVRLTELP	0.0863	19661.4	50.00	Rv2711, TB
IAs	158	AGSPVAVVVRQLTEH	VVVRQLTEH	0.0858	19750.0	50.00	Rv2711, TB
IAs	95	EVHAEACRWEHVMS	VHAEACRWE	0.0856	19811.0	50.00	Rv2711, TB
IAs	213	NVTLPHEMAHAVKVE	EMAHAVKVE	0.0853	19857.8	50.00	Rv2711, TB
IAs	145	ADDANLVRLTELPAG	NLVRLTELP	0.0853	19864.9	50.00	Rv2711, TB
IAs	103	WEHVMSERVEDVRLV	EHVMSERVED	0.0852	19883.2	50.00	Rv2711, TB
IAs	101	CRWEHVMSERVEDVRL	EHVMSERVED	0.0852	19887.5	50.00	Rv2711, TB
IAs	71	AIAVMRKHRLAERLL	AVMRKHRLA	0.0840	20158.5	50.00	Rv2711, TB
IAs	150	LVRLTELPAGSPVAV	LPAGSPVAV	0.0819	20618.2	50.00	Rv2711, TB
IAs	129	NPVAVVVRQLTEHVQ	VELGVGPEP	0.0803	20974.6	50.00	Rv2711, TB
IAs	137	LGVGPEPGADDANLV	PGADDANLV	0.0794	21183.5	50.00	Rv2711, TB
IAs	160	SPVAVVVRQLTEHVQ	SPVAVVVRQ	0.0788	21307.9	50.00	Rv2711, TB
IAs	159	GSPVAVVVRQLTEHV	VVVRQLTEH	0.0787	21348.1	50.00	Rv2711, TB
IAs	29	IAERLDQSGPTVSQTV	ERLDQSGPT	0.0780	21508.5	50.00	Rv2711, TB
IAs	85	LVDVIGLPWEEVHAE	VDVIGLPWE	0.0774	21629.6	50.00	Rv2711, TB
IAs	151	VRLTELPAGSPVAVV	TELPAGSPV	0.0774	21642.7	50.00	Rv2711, TB
IAs	72	IAVMRKHRLAERLLV	AVMRKHRLA	0.0773	21660.1	50.00	Rv2711, TB
IAs	104	EHVMSERVEDVRLVKV	EHVMSERVED	0.0771	21716.4	50.00	Rv2711, TB
IAs	157	PAGSPVAVVVRQLTE	AVVVRQLTE	0.0771	21720.6	50.00	Rv2711, TB
IAs	97	HAEACRWEHVMSEDV	AEACRWEHV	0.0770	21726.0	50.00	Rv2711, TB
IAs	152	RLTELPAGSPVAVVV	TELPAGSPV	0.0769	21755.2	50.00	Rv2711, TB
IAs	153	LTELPAGSPVAVVVV	TELPAGSPV	0.0767	21799.2	50.00	Rv2711, TB
IAs	86	VDVIGLPWEEVHAEA	VDVIGLPWE	0.0763	21908.5	50.00	Rv2711, TB
IAs	156	LPAGSPVAVVVRQLT	SPVAVVVRQ	0.0751	22176.1	50.00	Rv2711, TB
IAs	154	TELPAGSPVAVVVRQ	SPVAVVVRQ	0.0744	22346.1	50.00	Rv2711, TB
IAs	8	EMYLRTIYDLEEEG	RTIYDLEEE	0.0744	22348.3	50.00	Rv2711, TB
IAs	19	EEGVTPLRARIAERL	LRARIAERL	0.0741	22427.0	50.00	Rv2711, TB
IAs	15	YDLEEEGVTPLRARI	EGVTPLRAR	0.0730	22689.9	50.00	Rv2711, TB
IAs	185	DAGVVPNARVTVETT	VPNARVTVE	0.0728	22749.1	50.00	Rv2711, TB
IAs	138	GVGPEPGADDANLVR	PGADDANLV	0.0726	22789.3	50.00	Rv2711, TB
IAs	142	EPGADDANLVRLTE	PGADDANLV	0.0726	22802.6	50.00	Rv2711, TB
IAs	155	ELPAGSPVAVVVRQL	SPVAVVVRQ	0.0715	23060.1	50.00	Rv2711, TB
IAs	162	VAVVVRQLTEHVQGD	RQLTEHVQG	0.0714	23092.9	50.00	Rv2711, TB
IAs	140	GPEPGADDANLVRLT	PGADDANLV	0.0706	23301.9	50.00	Rv2711, TB
IAs	177	IDLITRLKDGAVVPN	TRLKDGAVV	0.0703	23365.0	50.00	Rv2711, TB
IAs	9	MYLRTIYDLEEEGVT	RTIYDLEEE	0.0701	23425.3	50.00	Rv2711, TB
IAs	139	VGPEPGADDANLVRL	PGADDANLV	0.0694	23592.2	50.00	Rv2711, TB
IAs	20	EGVTPLRARIAERLD	LRARIAERL	0.0691	23666.6	50.00	Rv2711, TB
IAs	127	FGNPIPGLVELGVGP	PGLVELGVG	0.0688	23742.5	50.00	Rv2711, TB
IAs	193	RVTVETTPGGGVTIV	RVTVETTPG	0.0683	23869.2	50.00	Rv2711, TB
IAs	126	PFGNPIPGLVELGVG	PGLVELGVG	0.0681	23936.4	50.00	Rv2711, TB
IAs	10	YLRTIYDLEEEGVT	RTIYDLEEE	0.0680	23952.2	50.00	Rv2711, TB
IAs	118	VLNNPTTSPFGNPIP	TSPFGNPIP	0.0679	23993.5	50.00	Rv2711, TB
IAs	16	DLEEEGVTPLRARIA	EGVTPLRAR	0.0674	24102.0	50.00	Rv2711, TB
IAs	74	VMRKHRLAERLLVDV	RKHRLAERL	0.0662	24430.7	50.00	Rv2711, TB
IAs	76	RKHRLAERLLVDVIG	RKHRLAERL	0.0662	24436.8	50.00	Rv2711, TB
IAs	141	PEPGADDANLVRLTE	PGADDANLV	0.0654	24643.3	50.00	Rv2711, TB

IAs	75	MRKHRLAERLLVDVI	RKHRLAERL	0.0646	24850.0	50.00	Rv2711, TB
IAs	12	RTIYDLEEEGVTPLR	RTIYDLEEE	0.0646	24858.9	50.00	Rv2711, TB
IAs	17	LEEEGVTPLRARIAE	EGVTPLRAR	0.0643	24928.7	50.00	Rv2711, TB
IAs	11	LRTIYDLEEEGVTP	RTIYDLEEE	0.0632	25234.0	50.00	Rv2711, TB
IAs	163	AVVVRQLTEHVQGD	RQLTEHVQG	0.0630	25284.0	50.00	Rv2711, TB
IAs	87	DVIGLPWEEVHAEAC	VIGLPWEEV	0.0614	25744.4	50.00	Rv2711, TB
IAs	14	IYDLEEEGVTPLRAR	EGVTPLRAR	0.0612	25794.6	50.00	Rv2711, TB
IAs	18	EEEGVTPLRARIAER	EGVTPLRAR	0.0611	25824.2	50.00	Rv2711, TB
IAs	175	GDIDLITRLKDGAVV	TRLKDGAVV	0.0582	26649.4	50.00	Rv2711, TB
IAs	88	VIGLPWEEVHAEACR	VIGLPWEEV	0.0580	26683.2	50.00	Rv2711, TB
IAs	60	HLELTEKGRALAIIV	EKGRALAI	0.0574	26872.0	50.00	Rv2711, TB
IAs	90	GLPWEEVHAEACRWE	VHAEACRWE	0.0569	27002.6	50.00	Rv2711, TB
IAs	176	DIDLITRLKDGAVVP	TRLKDGAVV	0.0565	27140.6	50.00	Rv2711, TB
IAs	3	LVDTTTEMYLRTIYDL	VDTTTEMYLR	0.0562	27214.1	50.00	Rv2711, TB
IAs	4	VDTTTEMYLRTIYDLE	TTEMYLRTI	0.0556	27406.2	50.00	Rv2711, TB
IAs	48	ERDGLLRVAGDRHLE	RVAGDRHLE	0.0556	27410.6	50.00	Rv2711, TB
IAs	77	KHRLAERLLVDVIGL	RLAERLLVD	0.0554	27462.0	50.00	Rv2711, TB
IAs	91	LPWEEVHAEACRWEH	VHAEACRWE	0.0532	28109.5	50.00	Rv2711, TB
IAs	107	MSEDVERRLLVKVLNN	RRLVKVLNN	0.0503	29022.4	50.00	Rv2711, TB
IAs	47	MERDGLLRVAGDRHL	LRVAGDRHL	0.0499	29127.5	50.00	Rv2711, TB
IAs	45	SRMERDGLLRVAGDR	GLLRVAGDR	0.0484	29622.4	50.00	Rv2711, TB
IAs	164	VVVRQLTEHVQGDID	RQLTEHVQG	0.0473	29975.1	50.00	Rv2711, TB
IAs	49	RDGLLRVAGDRHLEL	RVAGDRHLE	0.0465	30217.7	50.00	Rv2711, TB
IAs	89	IGLPWEEVHAEACRW	LPWEEVHAE	0.0457	30484.3	50.00	Rv2711, TB
IAs	165	VVRQLTEHVQGDIDLI	RQLTEHVQG	0.0456	30532.5	50.00	Rv2711, TB
IAs	128	GNPIPGLVELGVGPE	PGLVELGVG	0.0445	30889.1	50.00	Rv2711, TB
IAs	166	VRQLTEHVQGDIDLI	RQLTEHVQG	0.0443	30968.0	50.00	Rv2711, TB
IAs	194	VTVETTPGGGVTIVI	TPGGGVTIV	0.0437	31160.6	50.00	Rv2711, TB
IAs	5	DTTEMYLRTIYDLEE	TEMYLRTIY	0.0432	31320.5	50.00	Rv2711, TB
IAs	50	DGLLRVAGDRHLELT	RVAGDRHLE	0.0429	31419.6	50.00	Rv2711, TB
IAs	167	RQLTEHVQGDIDLIT	RQLTEHVQG	0.0422	31663.3	50.00	Rv2711, TB
IAs	13	TIYDLEEEGVTPLRA	EEGVTPLRA	0.0417	31835.4	50.00	Rv2711, TB
IAs	46	RMERDGLLRVAGDRH	GLLRVAGDR	0.0407	32185.9	50.00	Rv2711, TB
IAs	172	HVQGDIDLITRLKDA	DLITRLKDA	0.0365	33674.6	50.00	Rv2711, TB
IAs	51	GLLRVAGDRHLELTE	RVAGDRHLE	0.0362	33798.3	50.00	Rv2711, TB
IAs	44	VSRMERDGLLRVAGD	SRMERDGLL	0.0362	33799.1	50.00	Rv2711, TB
IAs	169	LTEHVQGDIDLITRL	GDIDLITRL	0.0347	34367.0	50.00	Rv2711, TB
IAs	43	TVSRMERDGLLRVAG	SRMERDGLL	0.0345	34423.2	50.00	Rv2711, TB
IAs	170	TEHVQGDIDLITRLK	GDIDLITRL	0.0337	34740.8	50.00	Rv2711, TB
IAs	171	EHVQGDIDLITRLKD	GDIDLITRL	0.0327	35113.4	50.00	Rv2711, TB
IAs	52	LLRVAGDRHLELTEK	RVAGDRHLE	0.0324	35229.9	50.00	Rv2711, TB
IAs	174	QGDLITRLKDGAV	DLITRLKDA	0.0304	36003.7	50.00	Rv2711, TB
IAs	168	QLTEHVQGDIDLITR	EHVQGDIDL	0.0298	36222.1	50.00	Rv2711, TB
IAs	173	VQGDIDLITRLKDG	DLITRLKDA	0.0286	36682.4	50.00	Rv2711, TB
IAs	105	HVMSEDVERRLLVKVL	EDVERRLVK	0.0285	36744.7	50.00	Rv2711, TB
IAs	106	VMSEDVERRLLVKVLN	EDVERRLVK	0.0256	37916.8	50.00	Rv2711, TB

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Allele: IAs. Number of high binders 0. Number of weak binders 0. Number of peptides 216  
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[Explain](#) the output. Go [back](#).