BcePred Prediction Server

The server displays  1.  2.       3.

seqname=
Seq=VKDTVSQPAGGRGATAPRPADAASPSCGSSPSADSVSVVLAGGGTAGHVEPAMAVADALV
ALDPRVRITALGTLRGLETRLVPQRGYHLELITAVPMPRKPGGDLARLPSRVWRAVREAR
DVLDDVDADVVVGFGGYVALPAYLAARGLPLPPRRRRRIPVVIHEANARAGLANRVGAHT
ADRVLSAVPDSGLRRAEVVGVPVRASIAALDRAVLRAEARAHFGFPDDARVLLVFGGSQG
AVSLNRAVSGAAADLAAAGVCVLHAHGPQNVLELRRRAQGDPPYVAVPYLDRMELAYAAA
DLVICRAGAMTVAEVSAVGLPAIYVPLPIGNGEQRLNALPVVNAGGGMVVADAALTPELV
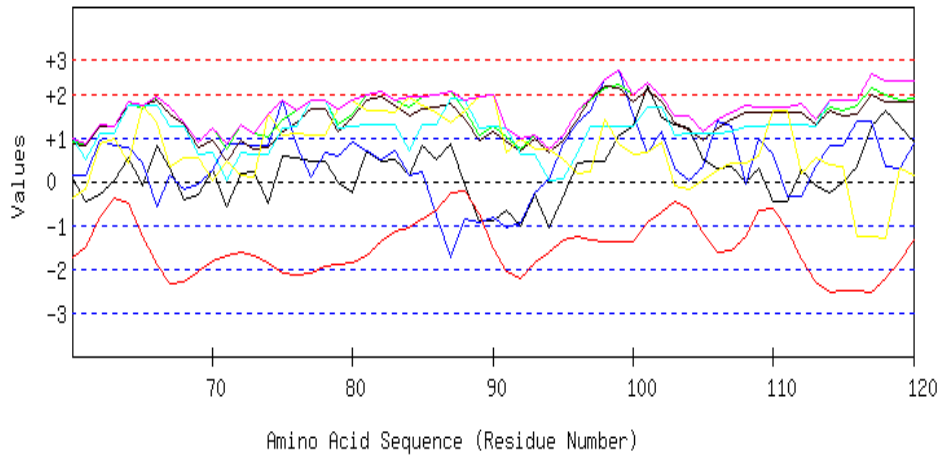ARQVAGLLTDPARLAAMTAAAARVGHRDAAGQVARAALAVATGAGARTTT

Length=410

**GRAPHICAL RESULT**

GRAPHICAL RESULT :: SEQ 1 to 60
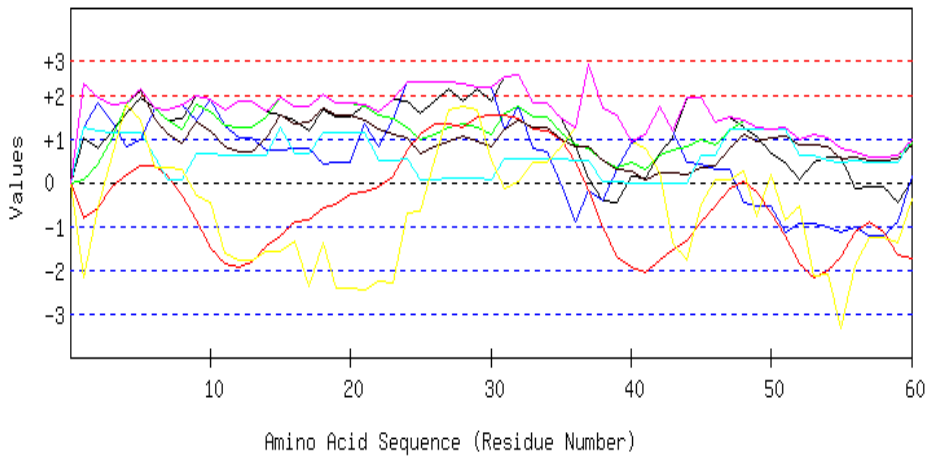


Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

# GRAPHICAL RESULT :: SEQ 61 to 120



Amino Acid Sequence (Residue Number)

Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

# GRAPHICAL RESULT :: SEQ 121 to 180



Amino Acid Sequence (Residue Number)

Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

# GRAPHICAL RESULT :: SEQ 181 to 240



Amino Acid Sequence (Residue Number)

Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

# GRAPHICAL RESULT :: SEQ 241 to 300



Values

Amino Acid Sequence (Residue Number)

Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

# GRAPHICAL RESULT :: SEQ 301 to 360
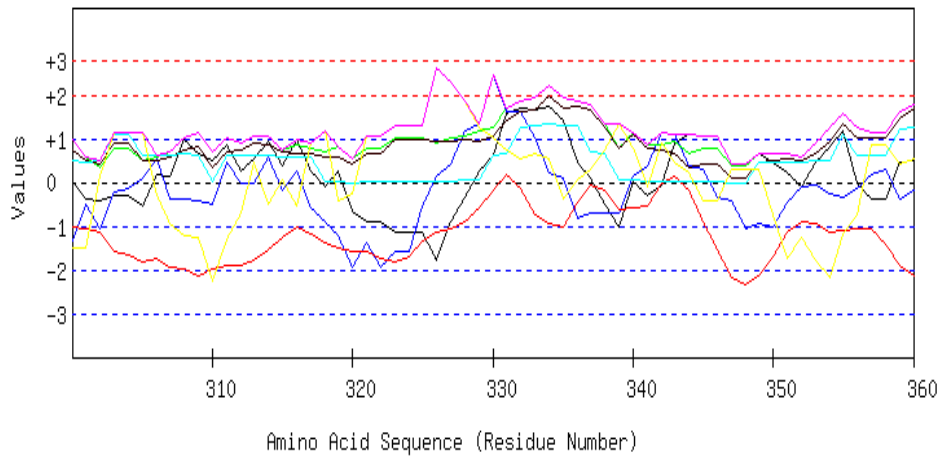


Values

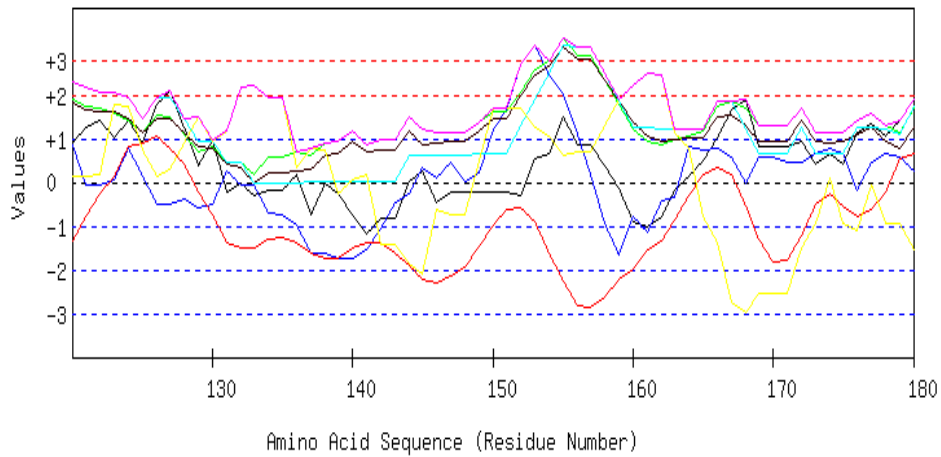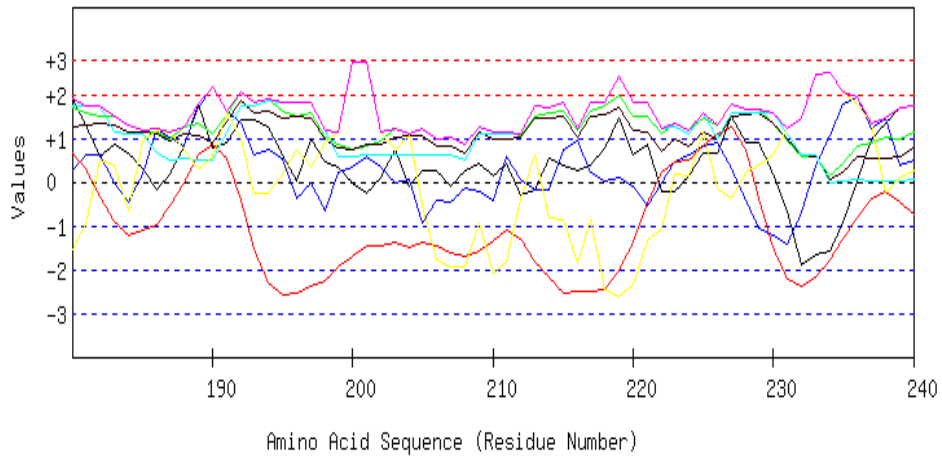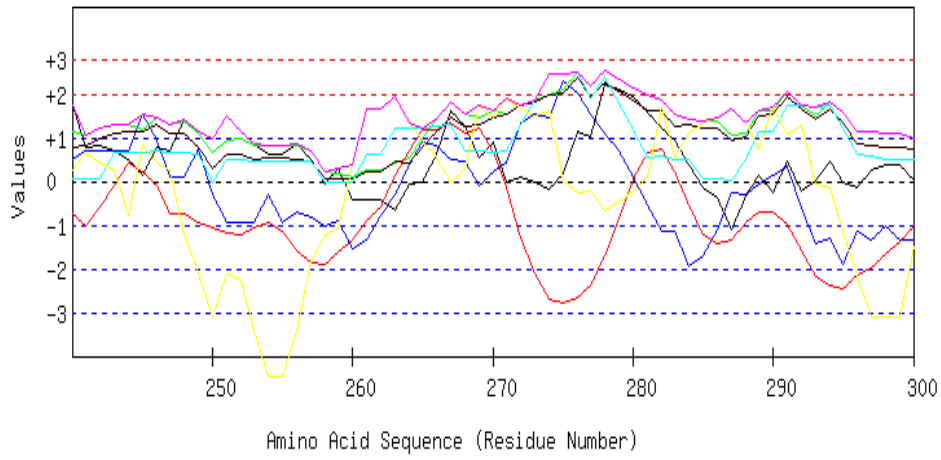Amino Acid Sequence (Residue Number)

Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 361 to 420



Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined
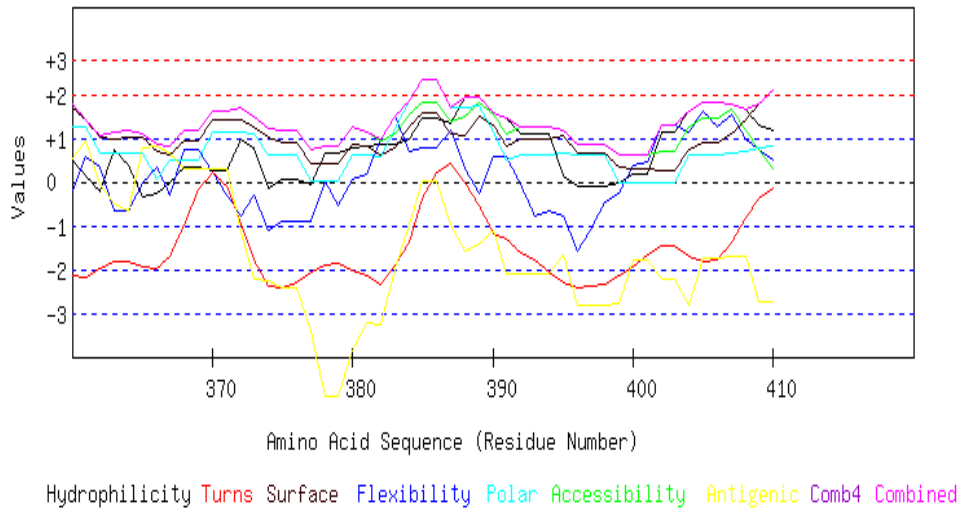
**TOP**

**TABULAR RESULT**

**Selected Programs: hydro flexi access turns surface polar antipro**

**Respective Threshold: 1.9 2 1.9 2.4 2.3 1.8 1.9**

**VKDTVSQPAGGRGATAPRPADAASPSCGSSPSADSVSVVLAGGGTAGHVEPAMAVADALV**
**ALDPRVRITALGTLRGLETRLVPQRGYHLELITAVPMPRKPGGDLARLPSRVWRAVREAR**
**DVLDDVDADVVVGFGGYVALPAYLAARGLPLPPRRRRRIPVVIHEANARAGLANRVGAHT**
**ADRVLSAVPDSGLRRAEVVGVPVRASIAALDRAVLRAEARAHFGFPDDARVLLVFGGSQG**
**AVSLNRAVSGAAADLAAAGVCVLHAHGPQNVLELRRRAQGDPPYVAVPYLDRMELAYAAA**
**DLVICRAGAMTVAEVSAVGLPAIYVPLPIGNGEQRLNALPVVNAGGGMVVADAALTPELV**
**ARQVAGLLTDPARLAAMTAAAARVGHRDAAGQVARAALAVATGAGARTTT**

**Length=410**

| A.A. | Hydro | Flexi | Access | Turns | Surface | Polar | AntiPro | MAX | MIN | AVG |
|------|-------|-------|--------|-------|---------|-------|---------|-----|-----|-----|
| 1 V | 1.009 | 1.251 | 0.066 | -0.823 | 2.260 | 1.255 | -2.163 | 2.260 | -2.163 | 0.408 |
| 2 K | 0.775 | 1.838 | 0.403 | -0.575 | 1.932 | 1.197 | -0.564 | 1.932 | -0.575 | 0.715 |
| 3 D | 1.186 | 1.365 | 1.010 | -0.113 | 1.768 | 1.157 | 0.606 | 1.768 | -0.113 | 0.997 |
| 4 T | 1.565 | 0.826 | 1.795 | 0.167 | 1.823 | 1.139 | 1.779 | 1.823 | 0.167 | 1.299 |
| 5 V | 1.932 | 0.962 | 2.160 | 0.380 | 2.105 | 1.156 | 1.410 | 2.160 | 0.380 | 1.444 |
| 6 S | 1.704 | 1.686 | 1.711 | 0.392 | 1.467 | 0.562 | 0.335 | 1.711 | 0.335 | 1.122 |
| 7 Q | 1.432 | 1.644 | 1.431 | 0.160 | 1.103 | 0.073 | 0.345 | 1.644 | 0.073 | 0.884 |
| 8 P | 1.464 | 1.780 | 1.225 | -0.286 | 0.902 | 0.053 | 0.304 | 1.780 | -0.286 | 0.777 |
| 9 A | 1.963 | 1.421 | 1.776 | -0.845 | 1.385 | 0.676 | -0.286 | 1.963 | -0.845 | 0.870 |
| 10 G | 1.913 | 1.912 | 1.617 | -1.484 | 1.185 | 0.656 | -0.445 | 1.913 | -1.484 | 0.765 |
| 11 G | 1.666 | 1.285 | 1.290 | -1.843 | 0.811 | 0.613 | -1.618 | 1.666 | -1.843 | 0.315 |
| 12 R | 1.862 | 1.016 | 1.244 | -1.934 | 0.692 | 0.614 | -1.798 | 1.862 | -1.934 | 0.242 |
| 13 G | 1.862 | 1.016 | 1.244 | -1.817 | 0.692 | 0.614 | -1.798 | 1.862 | -1.817 | 0.259 |
| 14 A | 1.634 | 0.748 | 1.496 | -1.443 | 1.011 | 0.633 | -1.578 | 1.634 | -1.578 | 0.357 |
| 15 T | 1.540 | 0.748 | 1.935 | -1.221 | 1.531 | 1.258 | -1.579 | 1.935 | -1.579 | 0.602 |
| 16 A | 1.407 | 0.796 | 1.748 | -0.883 | 1.330 | 0.652 | -1.358 | 1.748 | -1.358 | 0.528 |
| 17 P | 1.179 | 0.796 | 1.758 | -0.874 | 1.376 | 0.652 | -2.369 | 1.758 | -2.369 | 0.360 |
| 18 R | 1.679 | 0.437 | 2.029 | -0.577 | 1.695 | 1.141 | -1.368 | 2.029 | -1.368 | 0.720 |
| 19 P | 1.483 | 0.479 | 1.832 | -0.497 | 1.540 | 1.121 | -2.418 | 1.832 | -2.418 | 0.506 |
| 20 A | 1.483 | 0.479 | 1.832 | -0.263 | 1.540 | 1.121 | -2.418 | 1.832 | -2.418 | 0.539 |
| 21 D | 1.761 | 1.335 | 1.739 | -0.228 | 1.422 | 1.122 | -2.479 | 1.761 | -2.479 | 0.668 |
| 22 A | 1.628 | 0.832 | 1.552 | -0.084 | 1.221 | 0.517 | -2.258 | 1.628 | -2.258 | 0.487 |
| 23 A | 1.906 | 1.459 | 1.459 | 0.156 | 1.103 | 0.518 | -2.318 | 1.906 | -2.318 | 0.612 |
| 24 S | 1.862 | 2.315 | 1.244 | 0.757 | 1.011 | 0.536 | -0.686 | 2.315 | -0.686 | 1.006 |
| 25 P | 1.590 | 2.315 | 0.963 | 1.099 | 0.647 | 0.047 | -0.676 | 2.315 | -0.676 | 0.855 |
| 26 S | 1.868 | 2.315 | 1.113 | 1.352 | 0.802 | 0.067 | 0.494 | 2.315 | 0.067 | 1.144 |
| 27 C | 2.147 | 2.315 | 1.262 | 1.344 | 0.957 | 0.087 | 1.664 | 2.315 | 0.087 | 1.396 |
| 28 G | 1.868 | 2.279 | 1.356 | 1.258 | 1.075 | 0.086 | 1.724 | 2.279 | 0.086 | 1.378 |
| 29 S | 2.147 | 2.190 | 1.262 | 1.483 | 0.957 | 0.087 | 1.664 | 2.190 | 0.087 | 1.398 |
| 30 S | 1.868 | 2.190 | 1.113 | 1.530 | 0.802 | 0.067 | 0.494 | 2.190 | 0.067 | 1.152 |
| 31 P | 2.412 | 1.239 | 1.599 | 1.542 | 1.212 | 0.538 | -0.138 | 2.412 | -0.138 | 1.201 |
| 32 S | 2.463 | 1.736 | 1.758 | 1.450 | 1.412 | 0.558 | 0.022 | 2.463 | 0.022 | 1.343 |
| 33 A | 1.818 | 0.784 | 1.487 | 1.222 | 1.248 | 0.539 | 0.451 | 1.818 | 0.451 | 1.078 |
| 34 D | 1.818 | 0.688 | 1.487 | 1.186 | 1.248 | 0.539 | 0.451 | 1.818 | 0.451 | 1.060 |
| 35 S | 1.451 | -0.056 | 1.122 | 0.974 | 0.966 | 0.522 | 0.820 | 1.451 | -0.056 | 0.828 |
| 36 V | 0.806 | -0.911 | 0.851 | 0.478 | 0.802 | 0.504 | 1.249 | 1.249 | -0.911 | 0.540 |
| 37 S | 0.092 | -0.188 | 0.767 | -0.187 | 0.811 | 0.509 | 2.694 | 2.694 | -0.188 | 0.643 |
| 38 V | -0.408 | -0.416 | 0.496 | -1.002 | 0.492 | 0.020 | 1.693 | 1.693 | -1.002 | 0.125 |
| 39 V | -0.458 | 0.307 | 0.337 | -1.698 | 0.291 | 0.000 | 1.533 | 1.533 | -1.698 | 0.045 |
| 40 L | 0.136 | 0.894 | 0.449 | -1.952 | 0.255 | -0.002 | 0.945 | 0.945 | -1.952 | 0.104 |
| 41 A | 0.085 | 1.099 | 0.290 | -2.073 | 0.054 | -0.022 | 0.785 | 1.099 | -2.073 | 0.031 |
| 42 G | 0.648 | 1.726 | 0.608 | -1.785 | 0.218 | -0.003 | 0.237 | 1.726 | -1.785 | 0.236 |
| 43 G | 1.015 | 1.189 | 0.730 | -1.542 | 0.228 | -0.005 | -1.362 | 1.189 | -1.542 | 0.036 |
| 44 G | 1.957 | 0.465 | 0.804 | -1.322 | 0.173 | -0.010 | -1.797 | 1.957 | -1.797 | 0.039 |
| 45 T | 1.957 | 0.413 | 0.963 | -0.894 | 0.346 | 0.610 | -0.519 | 1.957 | -0.894 | 0.411 |
| 46 A | 1.363 | 0.281 | 0.851 | -0.545 | 0.382 | 0.611 | 0.069 | 1.363 | -0.545 | 0.430 |
| 47 G | 1.495 | 0.281 | 1.188 | -0.160 | 0.793 | 1.211 | 0.043 | 1.495 | -0.160 | 0.693 |
| 48 H | 1.268 | -0.460 | 1.440 | 0.036 | 1.112 | 1.230 | 0.262 | 1.440 | -0.460 | 0.698 |
| 49 V | 1.072 | -0.550 | 1.244 | -0.208 | 0.957 | 1.210 | -0.788 | 1.244 | -0.788 | 0.419 |
| 50 E | 0.673 | -0.550 | 1.234 | -0.717 | 1.002 | 1.227 | 0.166 | 1.234 | -0.717 | 0.434 |
| 51 P | 0.446 | -1.125 | 1.244 | -1.227 | 1.048 | 1.227 | -0.844 | 1.244 | -1.227 | 0.110 |
| 52 A | 0.079 | -0.945 | 0.963 | -1.862 | 0.866 | 0.609 | -0.523 | 0.963 | -1.862 | -0.116 |
| 53 M | 0.446 | -0.945 | 1.085 | -2.181 | 0.875 | 0.607 | -2.121 | 1.085 | -2.181 | -0.319 |
| 54 A | 0.585 | -1.035 | 1.029 | -2.032 | 0.829 | 0.496 | -2.104 | 1.029 | -2.104 | -0.319 |

Parameter — Combined

| Residue | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| 55 V | 0.585 | -1.131 | 0.786 | -1.713 | 0.556 | 0.478 | -3.334 | 0.786 | -3.334 | -0.539 |
| 56 A | -0.129 | -1.035 | 0.702 | -1.149 | 0.565 | 0.483 | -1.889 | 0.702 | -1.889 | -0.351 |
| 57 D | -0.098 | -1.240 | 0.589 | -0.912 | 0.510 | 0.467 | -1.245 | 0.589 | -1.245 | -0.275 |
| 58 A | -0.098 | -1.240 | 0.589 | -1.136 | 0.510 | 0.467 | -1.245 | 0.589 | -1.245 | -0.307 |
| 59 L | -0.446 | -0.881 | 0.627 | -1.666 | 0.528 | 0.471 | -1.399 | 0.627 | -1.666 | -0.395 |
| 60 V | 0.054 | 0.137 | 0.898 | -1.744 | 0.847 | 0.960 | -0.398 | 0.960 | -1.744 | 0.108 |
| 61 A | -0.446 | 0.137 | 0.870 | -1.503 | 0.802 | 0.490 | -0.169 | 0.870 | -1.503 | 0.026 |
| 62 L | -0.313 | 0.950 | 1.300 | -0.824 | 1.276 | 1.115 | 0.840 | 1.300 | -0.824 | 0.621 |
| 63 D | 0.035 | 0.830 | 1.262 | -0.366 | 1.257 | 1.111 | 0.994 | 1.262 | -0.366 | 0.732 |
| 64 P | 0.534 | 0.782 | 1.814 | -0.513 | 1.741 | 1.734 | 0.405 | 1.814 | -0.513 | 0.928 |
| 65 R | -0.104 | 0.423 | 1.674 | -1.250 | 1.722 | 1.736 | 1.736 | 1.736 | -1.250 | 0.848 |
| 66 V | 0.806 | -0.595 | 1.954 | -1.895 | 1.868 | 1.750 | 1.342 | 1.954 | -1.895 | 0.747 |
| 67 R | 0.307 | 0.129 | 1.683 | -2.354 | 1.549 | 1.261 | 0.341 | 1.683 | -2.354 | 0.417 |
| 68 I | -0.408 | -0.194 | 1.356 | -2.316 | 1.285 | 1.248 | 0.556 | 1.356 | -2.316 | 0.218 |
| 69 T | -0.313 | -0.074 | 0.917 | -2.065 | 0.765 | 0.623 | 0.557 | 0.917 | -2.065 | 0.059 |
| 70 A | 0.250 | 0.249 | 1.234 | -1.816 | 0.929 | 0.642 | 0.009 | 1.234 | -1.816 | 0.214 |
| 71 L | -0.597 | 0.876 | 0.720 | -1.709 | 0.465 | 0.022 | 0.445 | 0.876 | -1.709 | 0.032 |
| 72 G | 0.174 | 0.876 | 1.290 | -1.606 | 0.957 | 0.645 | 0.123 | 1.290 | -1.606 | 0.351 |
| 73 T | 0.206 | 0.824 | 1.085 | -1.699 | 0.756 | 0.625 | 0.082 | 1.085 | -1.699 | 0.268 |
| 74 L | -0.509 | 0.824 | 1.001 | -1.870 | 0.765 | 0.631 | 1.527 | 1.527 | -1.870 | 0.338 |
| 75 R | 0.566 | 1.842 | 1.412 | -2.101 | 1.121 | 1.225 | 1.066 | 1.842 | -2.101 | 0.733 |
| 76 G | 0.534 | 0.824 | 1.617 | -2.132 | 1.321 | 1.245 | 1.106 | 1.617 | -2.132 | 0.645 |
| 77 L | 0.471 | 0.101 | 1.851 | -2.106 | 1.640 | 1.850 | 1.065 | 1.851 | -2.106 | 0.696 |
| 78 E | 0.471 | 0.664 | 1.851 | -1.936 | 1.640 | 1.850 | 1.065 | 1.851 | -1.936 | 0.801 |
| 79 T | -0.028 | 0.580 | 1.300 | -1.904 | 1.157 | 1.226 | 1.654 | 1.654 | -1.904 | 0.569 |
| 80 R | -0.256 | 0.902 | 1.552 | -1.854 | 1.476 | 1.245 | 1.874 | 1.874 | -1.854 | 0.706 |
| 81 L | 0.705 | 0.716 | 1.963 | -1.690 | 1.841 | 1.282 | 1.602 | 1.963 | -1.690 | 0.917 |
| 82 V | 0.477 | 0.513 | 2.066 | -1.374 | 1.950 | 1.307 | 1.628 | 2.066 | -1.374 | 0.938 |
| 83 P | 0.509 | 0.700 | 1.860 | -1.144 | 1.750 | 1.288 | 1.587 | 1.860 | -1.144 | 0.936 |
| 84 Q | 0.123 | 0.137 | 1.683 | -1.072 | 1.513 | 0.682 | 1.920 | 1.920 | -1.072 | 0.712 |
| 85 R | 0.838 | 0.221 | 1.926 | -0.879 | 1.677 | 1.297 | 1.753 | 1.926 | -0.879 | 0.976 |
| 86 G | 0.490 | -0.797 | 1.963 | -0.650 | 1.695 | 1.301 | 1.599 | 1.963 | -0.797 | 0.800 |
| 87 Y | 0.850 | -1.749 | 2.047 | -0.255 | 1.786 | 1.881 | 1.353 | 2.047 | -1.749 | 0.845 |
| 88 H | -0.111 | -0.851 | 1.636 | -0.239 | 1.422 | 1.844 | 1.624 | 1.844 | -0.851 | 0.761 |
| 89 L | -0.882 | -0.941 | 1.066 | -0.745 | 0.929 | 1.221 | 1.947 | 1.947 | -0.941 | 0.371 |
| 90 E | -0.913 | -0.833 | 1.272 | -1.529 | 1.130 | 1.241 | 1.987 | 1.987 | -1.529 | 0.336 |
| 91 L | -0.661 | -1.049 | 1.019 | -2.043 | 0.893 | 1.222 | 0.645 | 1.222 | -2.043 | 0.004 |
| 92 I | -1.027 | -0.959 | 0.739 | -2.235 | 0.711 | 0.604 | 0.966 | 0.966 | -2.235 | -0.172 |
| 93 T | -0.313 | -0.276 | 1.066 | -1.841 | 0.975 | 0.617 | 0.751 | 1.066 | -1.841 | 0.140 |
| 94 A | -1.072 | 0.047 | 0.730 | -1.606 | 0.656 | 0.035 | 0.723 | 0.730 | -1.606 | -0.070 |
| 95 V | -0.357 | 0.878 | 1.057 | -1.323 | 0.920 | 0.048 | 0.508 | 1.057 | -1.323 | 0.247 |
| 96 P | 0.414 | 1.333 | 1.627 | -1.246 | 1.412 | 0.671 | 0.185 | 1.627 | -1.246 | 0.628 |
| 97 M | 0.446 | 1.601 | 1.879 | -1.329 | 1.895 | 1.246 | 0.209 | 1.895 | -1.329 | 0.850 |
| 98 P | 0.446 | 2.343 | 2.122 | -1.382 | 2.169 | 1.265 | 1.439 | 2.343 | -1.382 | 1.200 |
| 99 R | 1.040 | 2.523 | 2.234 | -1.397 | 2.132 | 1.263 | 0.851 | 2.523 | -1.397 | 1.235 |
| 100K | 1.268 | 1.505 | 1.982 | -1.400 | 1.813 | 1.244 | 0.631 | 1.982 | -1.400 | 1.006 |
| 101P | 2.166 | 0.674 | 2.262 | -0.943 | 2.087 | 1.716 | 0.677 | 2.262 | -0.943 | 1.234 |
| 102G | 1.451 | 1.129 | 1.935 | -0.719 | 1.823 | 1.702 | 0.893 | 1.935 | -0.719 | 1.173 |
| 103G | 1.318 | 0.297 | 1.505 | -0.467 | 1.349 | 1.078 | -0.117 | 1.505 | -0.467 | 0.709 |
| 104D | 1.224 | 0.029 | 1.487 | -0.620 | 1.185 | 1.108 | -0.183 | 1.487 | -0.620 | 0.604 |
| 105L | 0.509 | 0.345 | 1.160 | -1.162 | 0.920 | 1.094 | 0.032 | 1.160 | -1.162 | 0.414 |
| 106A | 0.281 | 1.363 | 1.412 | -1.623 | 1.239 | 1.113 | 0.252 | 1.412 | -1.623 | 0.577 |
| 107R | 0.332 | 1.267 | 1.571 | -1.565 | 1.440 | 1.133 | 0.412 | 1.571 | -1.565 | 0.656 |
| 108L | -0.035 | -0.050 | 1.730 | -1.266 | 1.595 | 1.269 | 0.420 | 1.730 | -1.266 | 0.523 |
| 109P | 0.313 | 0.968 | 1.692 | -0.679 | 1.576 | 1.265 | 0.573 | 1.692 | -0.679 | 0.816 |
| 110S | -0.452 | 0.610 | 1.711 | -0.628 | 1.595 | 1.290 | 1.606 | 1.711 | -0.628 | 0.819 |
| 111R | -0.452 | -0.342 | 1.711 | -1.099 | 1.595 | 1.290 | 1.606 | 1.711 | -1.099 | 0.616 |
| 112V | 0.263 | -0.342 | 1.795 | -1.774 | 1.586 | 1.285 | 0.161 | 1.795 | -1.774 | 0.425 |
| 113W | -0.104 | 0.329 | 1.431 | -2.285 | 1.303 | 1.268 | 0.530 | 1.431 | -2.285 | 0.353 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 114R | -0.250 | 0.832 | 1.711 | -2.554 | 1.622 | 1.872 | 0.369 | 1.872 | -2.554 | 0.515 |
| 115A | -0.022 | 0.832 | 1.608 | -2.519 | 1.513 | 1.847 | 0.343 | 1.847 | -2.519 | 0.515 |
| 116V | 0.345 | 1.371 | 1.730 | -2.510 | 1.522 | 1.846 | -1.255 | 1.846 | -2.510 | 0.435 |
| 117R | 1.242 | 1.371 | 2.141 | -2.528 | 1.977 | 2.445 | -1.279 | 2.445 | -2.528 | 0.767 |
| 118E | 1.609 | 0.353 | 1.982 | -2.210 | 1.823 | 2.309 | -1.287 | 2.309 | -2.210 | 0.654 |
| 119A | 1.242 | 0.317 | 1.860 | -1.835 | 1.813 | 2.311 | 0.312 | 2.311 | -1.835 | 0.860 |
| 120R | 0.895 | 0.856 | 1.898 | -1.326 | 1.832 | 2.315 | 0.158 | 2.315 | -1.326 | 0.947 |
| 121D | 1.261 | -0.054 | 1.739 | -0.790 | 1.677 | 2.179 | 0.150 | 2.179 | -0.790 | 0.880 |
| 122V | 1.401 | -0.054 | 1.683 | -0.263 | 1.631 | 2.068 | 0.168 | 2.068 | -0.263 | 0.948 |
| 123L | 1.034 | 0.043 | 1.561 | 0.136 | 1.622 | 2.070 | 1.766 | 2.070 | 0.043 | 1.176 |
| 124D | 1.401 | 0.786 | 1.403 | 0.804 | 1.467 | 1.934 | 1.758 | 1.934 | 0.786 | 1.365 |
| 125D | 0.901 | 0.151 | 1.132 | 0.905 | 1.148 | 1.445 | 0.757 | 1.445 | 0.151 | 0.920 |
| 126V | 1.767 | -0.484 | 1.524 | 1.060 | 1.476 | 1.933 | 0.160 | 1.933 | -0.484 | 1.062 |
| 127D | 2.115 | -0.484 | 1.487 | 0.780 | 1.458 | 1.929 | 0.313 | 2.115 | -0.484 | 1.085 |
| 128A | 1.249 | -0.396 | 1.094 | 0.413 | 1.130 | 1.441 | 0.911 | 1.441 | -0.396 | 0.835 |
| 129D | 0.383 | -0.570 | 0.702 | -0.204 | 0.802 | 0.954 | 1.509 | 1.509 | -0.570 | 0.511 |
| 130V | 0.977 | -0.482 | 0.814 | -0.729 | 0.765 | 0.952 | 0.920 | 0.977 | -0.729 | 0.460 |
| 131V | -0.237 | 0.241 | 0.477 | -1.366 | 0.401 | 0.468 | 1.180 | 1.180 | -1.366 | 0.166 |
| 132V | -0.009 | -0.070 | 0.468 | -1.498 | 0.355 | 0.468 | 2.191 | 2.191 | -1.498 | 0.272 |
| 133G | -0.281 | -0.070 | 0.188 | -1.508 | -0.009 | -0.021 | 2.200 | 2.200 | -1.508 | 0.071 |
| 134F | -0.167 | -0.697 | 0.561 | -1.290 | 0.237 | -0.003 | 1.943 | 1.943 | -1.290 | 0.083 |
| 135G | -0.167 | -0.727 | 0.561 | -1.264 | 0.237 | -0.003 | 1.943 | 1.943 | -1.264 | 0.083 |
| 136G | 0.199 | -0.995 | 0.683 | -1.395 | 0.246 | -0.005 | 0.345 | 0.683 | -1.395 | -0.132 |
| 137Y | -0.743 | -1.622 | 0.608 | -1.634 | 0.300 | 0.000 | 0.779 | 0.779 | -1.634 | -0.330 |
| 138V | -0.028 | -1.622 | 0.917 | -1.735 | 0.619 | 0.015 | 0.748 | 0.917 | -1.735 | -0.155 |
| 139A | -0.256 | -1.731 | 0.926 | -1.730 | 0.665 | 0.015 | -0.262 | 0.926 | -1.731 | -0.339 |
| 140L | -0.736 | -1.731 | 1.188 | -1.497 | 0.948 | 0.034 | 0.069 | 1.188 | -1.731 | -0.246 |
| 141P | -1.198 | -1.526 | 0.851 | -1.383 | 0.720 | 0.021 | 0.172 | 0.851 | -1.526 | -0.335 |
| 142A | -0.831 | -1.071 | 0.973 | -1.375 | 0.729 | 0.019 | -1.427 | 0.973 | -1.427 | -0.426 |
| 143Y | -0.831 | -0.444 | 0.973 | -1.633 | 0.729 | 0.019 | -1.427 | 0.973 | -1.633 | -0.374 |
| 144L | 0.016 | -0.242 | 1.487 | -1.919 | 1.194 | 0.638 | -1.862 | 1.487 | -1.919 | -0.098 |
| 145A | 0.244 | 0.321 | 1.234 | -2.204 | 0.875 | 0.619 | -2.082 | 1.234 | -2.204 | -0.142 |
| 146A | -0.471 | 0.117 | 1.150 | -2.296 | 0.884 | 0.625 | -0.637 | 1.150 | -2.296 | -0.090 |
| 147R | -0.218 | 0.475 | 1.141 | -2.157 | 0.920 | 0.624 | -0.749 | 1.141 | -2.157 | 0.005 |
| 148G | -0.218 | 0.021 | 1.141 | -1.940 | 0.920 | 0.624 | -0.749 | 1.141 | -1.940 | -0.029 |
| 149L | -0.218 | 0.207 | 1.384 | -1.472 | 1.194 | 0.643 | 0.481 | 1.384 | -1.472 | 0.317 |
| 150P | -0.218 | 1.225 | 1.627 | -0.995 | 1.467 | 0.662 | 1.711 | 1.711 | -0.995 | 0.783 |
| 151L | -0.218 | 1.680 | 1.627 | -0.614 | 1.467 | 0.662 | 1.711 | 1.711 | -0.614 | 0.902 |
| 152P | -0.313 | 2.697 | 2.066 | -0.586 | 1.987 | 1.287 | 1.710 | 2.697 | -0.586 | 1.264 |
| 153P | 0.534 | 3.152 | 2.580 | -0.898 | 2.451 | 1.906 | 1.274 | 3.152 | -0.898 | 1.572 |
| 154R | 0.667 | 2.469 | 2.767 | -1.629 | 2.652 | 2.512 | 1.053 | 2.767 | -1.629 | 1.499 |
| 155R | 1.514 | 2.014 | 3.281 | -2.268 | 3.117 | 3.131 | 0.617 | 3.281 | -2.268 | 1.630 |
| 156R | 0.876 | 1.105 | 2.898 | -2.803 | 2.825 | 3.114 | 0.719 | 3.114 | -2.803 | 1.248 |
| 157R | 0.876 | 0.195 | 2.898 | -2.860 | 2.825 | 3.114 | 0.719 | 3.114 | -2.860 | 1.110 |
| 158R | 0.376 | -0.943 | 2.346 | -2.629 | 2.342 | 2.491 | 1.309 | 2.491 | -2.629 | 0.756 |
| 159I | -0.123 | -1.666 | 1.795 | -2.215 | 1.859 | 1.868 | 1.898 | 1.898 | -2.215 | 0.488 |
| 160P | -0.894 | -0.767 | 1.225 | -1.990 | 1.367 | 1.245 | 2.221 | 2.221 | -1.990 | 0.344 |
| 161V | -1.027 | -1.125 | 0.954 | -1.556 | 1.066 | 1.240 | 2.489 | 2.489 | -1.556 | 0.291 |
| 162V | -0.800 | -0.420 | 0.851 | -1.350 | 0.957 | 1.215 | 2.464 | 2.464 | -1.350 | 0.417 |
| 163I | -0.161 | -0.324 | 0.991 | -0.871 | 0.975 | 1.213 | 1.132 | 1.213 | -0.871 | 0.422 |
| 164H | 0.149 | 0.814 | 1.047 | -0.287 | 1.011 | 1.235 | 0.799 | 1.235 | -0.287 | 0.681 |
| 165E | 0.515 | 0.724 | 1.169 | 0.172 | 1.020 | 1.233 | -0.800 | 1.233 | -0.800 | 0.576 |
| 166A | 1.015 | 0.776 | 1.720 | 0.338 | 1.504 | 1.856 | -1.390 | 1.856 | -1.390 | 0.831 |
| 167N | 1.653 | 0.572 | 1.860 | 0.182 | 1.522 | 1.855 | -2.721 | 1.860 | -2.721 | 0.703 |
| 168A | 1.881 | -0.038 | 1.692 | -0.538 | 1.303 | 1.235 | -2.988 | 1.881 | -2.988 | 0.364 |
| 169R | 0.806 | 0.572 | 1.281 | -1.292 | 0.948 | 0.641 | -2.527 | 1.281 | -2.527 | 0.061 |
| 170A | 0.806 | 0.572 | 1.281 | -1.813 | 0.948 | 0.641 | -2.527 | 1.281 | -2.527 | -0.013 |
| 171G | 0.806 | 0.475 | 1.281 | -1.766 | 0.948 | 0.641 | -2.527 | 1.281 | -2.527 | -0.020 |
| 172L | 0.939 | 0.475 | 1.711 | -1.226 | 1.422 | 1.265 | -1.518 | 1.711 | -1.518 | 0.438 |

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|---|---|---|---|---|---|---|---|---|---|---|
| 173A | 0.440 | 0.680 | 1.160 | -0.519 | 0.938 | 0.642 | -0.928 | 1.160 | -0.928 | 0.345 |
| 174N | 0.667 | 0.770 | 1.150 | -0.274 | 0.893 | 0.642 | 0.082 | 1.150 | -0.274 | 0.561 |
| 175R | 0.440 | 0.652 | 1.160 | -0.552 | 0.938 | 0.642 | -0.928 | 1.160 | -0.928 | 0.336 |
| 176V | 1.154 | -0.162 | 1.403 | -0.790 | 1.103 | 1.257 | -1.096 | 1.403 | -1.096 | 0.410 |
| 177G | 1.350 | 0.473 | 1.599 | -0.632 | 1.257 | 1.276 | -0.045 | 1.599 | -0.632 | 0.754 |
| 178A | 1.040 | 0.660 | 1.300 | -0.238 | 0.948 | 1.236 | -0.942 | 1.300 | -0.942 | 0.572 |
| 179H | 1.407 | 0.564 | 1.141 | 0.527 | 0.793 | 1.100 | -0.950 | 1.407 | -0.950 | 0.654 |
| 180T | **1.906** | 0.269 | 1.692 | 0.644 | 1.276 | 1.723 | -1.540 | 1.906 | -1.540 | 0.853 |
| 181A | 1.312 | 0.634 | 1.580 | 0.297 | 1.312 | 1.725 | -0.951 | 1.725 | -0.951 | 0.844 |
| 182D | 0.598 | 0.634 | 1.496 | -0.333 | 1.321 | 1.730 | 0.494 | 1.730 | -0.333 | 0.848 |
| 183R | 0.876 | -0.001 | 1.487 | -0.889 | 1.303 | 1.130 | 0.386 | 1.487 | -0.889 | 0.613 |
| 184V | 0.680 | -0.456 | 1.290 | -1.207 | 1.148 | 1.110 | -0.665 | 1.290 | -1.207 | 0.271 |
| 185L | 0.313 | 0.179 | 1.169 | -1.095 | 1.139 | 1.112 | 0.934 | 1.169 | -1.095 | 0.536 |
| 186S | -0.186 | 1.239 | 1.141 | -0.992 | 1.093 | 0.642 | 1.163 | 1.239 | -0.992 | 0.586 |
| 187A | 0.180 | 1.010 | 0.982 | -0.549 | 0.938 | 0.506 | 1.155 | 1.155 | -0.549 | 0.603 |
| 188V | 0.825 | 0.806 | 1.253 | -0.026 | 1.103 | 0.525 | 0.726 | 1.253 | -0.026 | 0.745 |
| 189P | 1.767 | 1.716 | 1.328 | 0.627 | 1.048 | 0.519 | 0.291 | 1.767 | 0.291 | 1.042 |
| 190D | 0.775 | **2.170** | 1.094 | 0.878 | 0.902 | 0.505 | 0.566 | 2.170 | 0.505 | 0.984 |
| 191S | 0.907 | 1.631 | 1.524 | 0.549 | 1.376 | 1.129 | 1.576 | 1.631 | 0.549 | 1.242 |
| 192G | 1.407 | 1.351 | **2.075** | -0.425 | 1.859 | 1.753 | 0.986 | 2.075 | -0.425 | 1.287 |
| 193L | 1.407 | 0.628 | 1.832 | -1.549 | 1.586 | 1.734 | -0.244 | 1.832 | -1.549 | 0.770 |
| 194R | 1.268 | 0.736 | 1.889 | -2.316 | 1.631 | **1.844** | -0.261 | 1.889 | -2.316 | 0.684 |
| 195R | 0.623 | 0.550 | 1.617 | -2.598 | 1.467 | **1.826** | 0.168 | 1.826 | -2.598 | 0.522 |
| 196A | 0.029 | -0.360 | 1.505 | -2.534 | 1.504 | **1.827** | 0.756 | 1.827 | -2.534 | 0.389 |
| 197E | 0.971 | -0.001 | 1.580 | -2.375 | 1.449 | **1.822** | 0.321 | 1.822 | -2.375 | 0.538 |
| 198V | 0.471 | -0.673 | 1.029 | -2.245 | 0.966 | 1.199 | 0.911 | 1.199 | -2.245 | 0.237 |
| 199V | 0.338 | 0.237 | 0.842 | -1.955 | 0.765 | 0.593 | 1.132 | 1.132 | -1.955 | 0.279 |
| 200G | -0.028 | 0.333 | 0.720 | -1.705 | 0.756 | 0.595 | **2.731** | 2.731 | -1.705 | 0.486 |
| 201V | -0.256 | 0.562 | 0.823 | -1.463 | 0.866 | 0.620 | **2.756** | 2.756 | -1.463 | 0.558 |
| 202P | 0.111 | 0.333 | 0.945 | -1.453 | 0.875 | 0.618 | 1.157 | 1.157 | -1.453 | 0.369 |
| 203V | 0.756 | -0.026 | 1.216 | -1.394 | 1.039 | 0.637 | 0.728 | 1.216 | -1.394 | 0.422 |
| 204R | -0.111 | 0.071 | 1.085 | -1.502 | 1.066 | 0.638 | 1.050 | 1.085 | -1.502 | 0.328 |
| 205A | 0.256 | -0.947 | 1.206 | -1.365 | 1.075 | 0.637 | -0.549 | 1.206 | -1.365 | 0.045 |
| 206S | 0.256 | -0.408 | 0.963 | -1.455 | 0.802 | 0.618 | -1.779 | 0.963 | -1.779 | -0.143 |
| 207I | -0.092 | -0.450 | 1.001 | -1.639 | 0.820 | 0.622 | -1.933 | 1.001 | -1.933 | -0.239 |
| 208A | 0.275 | -0.126 | 0.842 | -1.693 | 0.665 | 0.486 | -1.941 | 0.842 | -1.941 | -0.213 |
| 209A | 0.408 | -0.222 | 1.272 | -1.587 | 1.139 | 1.111 | -0.932 | 1.272 | -1.587 | 0.170 |
| 210L | 0.130 | -0.426 | 1.122 | -1.326 | 0.984 | 1.091 | -2.102 | 1.122 | -2.102 | -0.075 |
| 211D | 0.402 | 0.592 | 1.141 | -1.110 | 0.993 | 1.090 | -1.835 | 1.141 | -1.835 | 0.182 |
| 212R | -0.313 | 0.053 | 1.057 | -1.307 | 1.002 | 1.096 | -0.390 | 1.096 | -1.307 | 0.171 |
| 213A | -0.180 | -0.186 | 1.487 | -1.817 | 1.476 | 1.720 | 0.620 | 1.720 | -1.817 | 0.446 |
| 214V | 0.534 | -0.186 | 1.571 | -2.182 | 1.467 | 1.715 | -0.825 | 1.715 | -2.182 | 0.299 |
| 215L | 0.395 | 0.724 | 1.627 | -2.531 | 1.513 | **1.826** | -0.843 | 1.826 | -2.531 | 0.387 |
| 216R | 0.263 | 0.928 | 1.197 | -2.510 | 1.039 | 1.201 | -1.852 | 1.201 | -2.510 | 0.038 |
| 217A | 0.395 | 0.205 | 1.627 | -2.505 | 1.513 | **1.826** | -0.843 | 1.826 | -2.505 | 0.317 |
| 218E | 0.762 | 0.031 | 1.748 | -2.462 | 1.522 | **1.824** | -2.442 | 1.824 | -2.462 | 0.140 |
| 219A | 1.476 | 0.083 | **1.991** | -2.028 | 1.686 | **2.439** | -2.609 | 2.439 | -2.609 | 0.434 |
| 220R | 0.629 | -0.092 | 1.496 | -1.365 | 1.166 | **1.818** | -2.357 | 1.818 | -2.357 | 0.185 |
| 221A | 0.857 | -0.546 | 1.487 | -0.478 | 1.121 | **1.818** | -1.347 | 1.818 | -1.347 | 0.416 |
| 222H | -0.218 | -0.007 | 1.094 | 0.210 | 0.711 | 1.223 | -1.069 | 1.223 | -1.069 | 0.278 |
| 223F | -0.218 | 0.441 | 1.337 | 0.459 | 0.984 | 1.242 | 0.161 | 1.337 | -0.218 | 0.629 |
| 224G | 0.149 | 0.616 | 1.178 | 0.494 | 0.829 | 1.106 | 0.153 | 1.178 | 0.149 | 0.646 |
| 225F | 0.648 | 0.802 | 1.449 | 0.808 | 1.148 | 1.595 | 1.154 | 1.595 | 0.648 | 1.086 |
| 226P | 0.648 | 0.880 | 1.290 | 1.081 | 0.975 | 0.975 | -0.124 | 1.290 | -0.124 | 0.818 |
| 227D | 1.495 | 0.317 | 1.786 | 1.246 | 1.494 | 1.596 | -0.376 | 1.786 | -0.376 | 1.080 |
| 228D | 0.901 | -0.426 | 1.674 | 0.727 | 1.531 | 1.597 | 0.213 | 1.674 | -0.426 | 0.888 |
| 229A | 0.901 | -1.061 | 1.655 | -0.377 | 1.586 | 1.598 | 0.397 | 1.655 | -1.061 | 0.671 |
| 230R | 0.187 | -1.236 | 1.328 | -1.496 | 1.321 | 1.585 | 0.612 | 1.585 | -1.496 | 0.329 |
| 231V | -0.680 | -1.422 | 0.935 | -2.217 | 0.993 | 1.097 | 1.209 | 1.209 | -2.217 | -0.012 |

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|---|---|---|---|---|---|---|---|---|---|---|
| 232L | -1.893 | -0.699 | 0.599 | -2.389 | 0.629 | 0.613 | 1.469 | 1.469 | -2.389 | -0.239 |
| 233L | -1.666 | 0.361 | 0.589 | -2.160 | 0.583 | 0.613 | 2.480 | 2.480 | -2.160 | 0.114 |
| 234V | -1.571 | 1.056 | 0.150 | -1.795 | 0.063 | -0.012 | 2.481 | 2.481 | -1.795 | 0.053 |
| 235F | -0.926 | 1.780 | 0.421 | -1.291 | 0.228 | 0.006 | 2.052 | 2.052 | -1.291 | 0.324 |
| 236G | 0.035 | 1.954 | 0.832 | -0.801 | 0.592 | 0.043 | 1.780 | 1.954 | -0.801 | 0.634 |
| 237G | 0.977 | 1.231 | 0.907 | -0.374 | 0.537 | 0.038 | 1.346 | 1.346 | -0.374 | 0.666 |
| 238S | 1.344 | 1.459 | 1.029 | -0.207 | 0.547 | 0.037 | -0.253 | 1.459 | -0.253 | 0.565 |
| 239Q | 1.691 | 0.399 | 0.973 | -0.461 | 0.583 | 0.034 | 0.084 | 1.691 | -0.461 | 0.472 |
| 240G | 1.742 | 0.517 | 1.132 | -0.742 | 0.784 | 0.054 | 0.244 | 1.742 | -0.742 | 0.533 |
| 241A | 0.800 | 0.704 | 1.057 | -1.004 | 0.838 | 0.059 | 0.679 | 1.057 | -1.004 | 0.447 |
| 242V | 0.832 | 0.704 | 1.206 | -0.592 | 0.993 | 0.080 | 0.406 | 1.206 | -0.592 | 0.518 |
| 243S | 0.718 | 0.704 | 1.309 | -0.101 | 1.093 | 0.662 | 0.242 | 1.309 | -0.101 | 0.661 |
| 244L | 0.490 | 0.704 | 1.318 | 0.401 | 1.139 | 0.662 | -0.769 | 1.318 | -0.769 | 0.564 |
| 245N | 0.123 | 1.535 | 1.197 | 0.207 | 1.130 | 0.664 | 0.830 | 1.535 | 0.123 | 0.812 |
| 246R | 0.768 | 0.926 | 1.468 | -0.114 | 1.294 | 0.682 | 0.401 | 1.468 | -0.114 | 0.775 |
| 247A | 0.718 | 0.113 | 1.309 | -0.733 | 1.093 | 0.662 | 0.242 | 1.309 | -0.733 | 0.486 |
| 248V | 1.432 | 0.113 | 1.393 | -0.743 | 1.084 | 0.657 | -1.203 | 1.432 | -1.203 | 0.390 |
| 249S | 1.122 | 0.748 | 1.094 | -0.952 | 0.774 | 0.616 | -2.101 | 1.122 | -2.101 | 0.186 |
| 250G | 0.990 | -0.312 | 0.664 | -1.043 | 0.300 | -0.009 | -3.110 | 0.990 | -3.110 | -0.360 |
| 251A | 1.489 | -0.939 | 0.935 | -1.178 | 0.619 | 0.480 | -2.109 | 1.489 | -2.109 | -0.100 |
| 252A | 1.141 | -0.939 | 0.973 | -1.203 | 0.638 | 0.484 | -2.262 | 1.141 | -2.262 | -0.167 |
| 253A | 0.863 | -0.939 | 0.823 | -1.051 | 0.483 | 0.464 | -3.432 | 0.863 | -3.432 | -0.399 |
| 254D | 0.636 | -0.312 | 0.832 | -0.942 | 0.528 | 0.464 | -4.443 | 0.832 | -4.443 | -0.462 |
| 255L | 0.636 | -0.947 | 0.832 | -1.140 | 0.528 | 0.464 | -4.443 | 0.832 | -4.443 | -0.581 |
| 256A | 0.863 | -0.707 | 0.823 | -1.579 | 0.483 | 0.464 | -3.432 | 0.863 | -3.432 | -0.441 |
| 257A | 0.496 | -0.803 | 0.702 | -1.868 | 0.474 | 0.466 | -1.834 | 0.702 | -1.868 | -0.338 |
| 258A | -0.047 | -1.007 | 0.216 | -1.894 | 0.063 | -0.005 | -1.202 | 0.216 | -1.894 | -0.554 |
| 259G | 0.300 | -0.917 | 0.178 | -1.616 | 0.045 | -0.009 | -1.049 | 0.300 | -1.616 | -0.438 |
| 260V | -0.414 | -1.544 | 0.094 | -1.344 | 0.054 | -0.004 | 0.397 | 0.397 | -1.544 | -0.394 |
| 261C | -0.414 | -1.358 | 0.253 | -0.891 | 0.228 | 0.616 | 1.674 | 1.674 | -1.358 | 0.015 |
| 262V | -0.414 | -0.767 | 0.253 | -0.587 | 0.228 | 0.616 | 1.674 | 1.674 | -0.767 | 0.143 |
| 263L | -0.642 | -0.312 | 0.421 | 0.133 | 0.446 | 1.236 | 1.941 | 1.941 | -0.642 | 0.461 |
| 264H | -0.047 | 0.383 | 0.533 | 0.697 | 0.410 | 1.234 | 1.353 | 1.353 | -0.047 | 0.652 |
| 265A | -0.003 | 0.902 | 0.991 | 1.173 | 0.774 | 1.236 | 0.950 | 1.236 | -0.003 | 0.861 |
| 266H | 0.610 | 0.806 | 1.440 | 1.168 | 1.157 | 1.276 | 0.525 | 1.440 | 0.525 | 0.998 |
| 267G | 1.634 | 0.511 | 1.823 | 1.355 | 1.458 | 1.312 | -0.023 | 1.823 | -0.023 | 1.153 |
| 268P | 1.268 | 0.459 | 1.543 | 1.103 | 1.276 | 0.693 | 0.298 | 1.543 | 0.298 | 0.949 |
| 269Q | 0.553 | -0.104 | 1.459 | 1.237 | 1.285 | 0.699 | 1.743 | 1.743 | -0.104 | 0.982 |
| 270N | 0.914 | 0.219 | 1.627 | 0.660 | 1.476 | 0.678 | 1.450 | 1.627 | 0.219 | 1.003 |
| 271V | -0.028 | 0.423 | 1.552 | -0.136 | 1.531 | 0.684 | 1.884 | 1.884 | -0.136 | 0.844 |
| 272L | 0.104 | 1.333 | 1.739 | -1.316 | 1.731 | 1.289 | 1.664 | 1.739 | -1.316 | 0.935 |
| 273E | -0.009 | 1.537 | 1.842 | -2.119 | 1.832 | 1.872 | 1.499 | 1.872 | -2.119 | 0.922 |
| 274L | -0.186 | 1.453 | 1.973 | -2.715 | 1.996 | 2.456 | 1.612 | 2.456 | -2.715 | 0.941 |
| 275R | 0.180 | 2.285 | 2.094 | -2.789 | 2.005 | 2.454 | 0.013 | 2.454 | -2.789 | 0.892 |
| 276R | 1.141 | 2.010 | 2.505 | -2.660 | 2.369 | 2.491 | -0.259 | 2.505 | -2.660 | 1.086 |
| 277R | 1.009 | 1.555 | 2.169 | -2.378 | 1.959 | 1.892 | -0.232 | 2.169 | -2.378 | 0.853 |
| 278A | 2.222 | 1.101 | 2.524 | -1.682 | 2.269 | 2.375 | -0.676 | 2.524 | -1.682 | 1.162 |
| 279Q | 2.090 | 0.694 | 2.337 | -0.857 | 2.069 | 1.769 | -0.455 | 2.337 | -0.857 | 1.092 |
| 280G | 1.957 | 0.107 | 2.150 | 0.068 | 1.868 | 1.164 | -0.235 | 2.150 | -0.235 | 1.011 |
| 281D | 1.571 | -0.520 | 1.973 | 0.658 | 1.631 | 0.558 | 0.098 | 1.973 | -0.520 | 0.853 |
| 282P | 1.205 | -1.156 | 1.851 | 0.756 | 1.622 | 0.560 | 1.697 | 1.851 | -1.156 | 0.934 |
| 283P | 0.958 | -1.156 | 1.524 | 0.216 | 1.248 | 0.518 | 0.524 | 1.524 | -1.156 | 0.548 |
| 284Y | 0.364 | -1.921 | 1.412 | -0.544 | 1.285 | 0.519 | 1.112 | 1.412 | -1.921 | 0.318 |
| 285V | -0.136 | -1.719 | 1.384 | -1.214 | 1.239 | 0.049 | 1.341 | 1.384 | -1.719 | 0.135 |
| 286A | -0.389 | -1.083 | 1.393 | -1.434 | 1.203 | 0.050 | 1.453 | 1.453 | -1.434 | 0.170 |
| 287V | -1.103 | -0.270 | 1.066 | -1.349 | 0.938 | 0.036 | 1.668 | 1.668 | -1.349 | 0.141 |
| 288P | -0.351 | -0.288 | 1.085 | -0.925 | 1.020 | 0.506 | 1.327 | 1.327 | -0.925 | 0.339 |
| 289Y | 0.149 | -0.072 | 1.636 | -0.705 | 1.504 | 1.129 | 0.738 | 1.636 | -0.705 | 0.625 |
| 290L | -0.250 | 0.131 | 1.627 | -0.690 | 1.549 | 1.146 | 1.693 | 1.693 | -0.690 | 0.744 |

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|---|---|---|---|---|---|---|---|---|---|
| 291D | 0.477 | 0.335 | 2.075 | -0.989 | 1.923 | 1.744 | 1.077 | 2.075 | -0.989 | 0.949 |
| 292R | -0.237 | -0.611 | 1.748 | -1.589 | 1.658 | 1.730 | 1.293 | 1.748 | -1.589 | 0.570 |
| 293M | 0.016 | -1.424 | 1.496 | -2.187 | 1.422 | 1.711 | -0.050 | 1.711 | -2.187 | 0.141 |
| 294E | 0.477 | -1.310 | 1.832 | -2.393 | 1.649 | 1.725 | -0.153 | 1.832 | -2.393 | 0.261 |
| 295L | -0.022 | -1.885 | 1.561 | -2.440 | 1.330 | 1.236 | -1.154 | 1.561 | -2.440 | -0.196 |
| 296A | -0.155 | -1.142 | 1.132 | -2.155 | 0.856 | 0.611 | -2.163 | 1.132 | -2.163 | -0.431 |
| 297Y | 0.244 | -1.346 | 1.141 | -1.973 | 0.811 | 0.594 | -3.118 | 1.141 | -3.118 | -0.521 |
| 298A | 0.383 | -1.035 | 1.085 | -1.661 | 0.765 | 0.484 | -3.101 | 1.085 | -3.101 | -0.440 |
| 299A | 0.383 | -1.360 | 1.085 | -1.398 | 0.765 | 0.484 | -3.101 | 1.085 | -3.101 | -0.449 |
| 300A | 0.016 | -1.324 | 0.963 | -1.023 | 0.756 | 0.485 | -1.502 | 0.963 | -1.502 | -0.233 |
| 301D | -0.370 | -0.510 | 0.571 | -1.040 | 0.501 | 0.468 | -1.512 | 0.571 | -1.512 | -0.270 |
| 302L | -0.414 | -1.049 | 0.356 | -1.151 | 0.410 | 0.485 | 0.120 | 0.485 | -1.151 | -0.178 |
| 303V | -0.281 | -0.218 | 0.786 | -1.569 | 0.884 | 1.110 | 1.130 | 1.130 | -1.569 | 0.263 |
| 304I | -0.281 | -0.122 | 0.786 | -1.673 | 0.884 | 1.110 | 1.130 | 1.130 | -1.673 | 0.262 |
| 305C | -0.553 | 0.089 | 0.505 | -1.802 | 0.519 | 0.621 | 1.139 | 1.139 | -1.802 | 0.074 |
| 306R | 0.161 | 0.544 | 0.589 | -1.737 | 0.510 | 0.616 | -0.306 | 0.616 | -1.737 | 0.054 |
| 307A | 0.130 | -0.366 | 0.702 | -1.957 | 0.565 | 0.631 | -0.950 | 0.702 | -1.957 | -0.178 |
| 308G | 0.964 | -0.366 | 1.038 | -1.989 | 0.738 | 0.649 | -1.231 | 1.038 | -1.989 | -0.028 |
| 309A | 0.642 | -0.418 | 1.132 | -2.137 | 0.820 | 0.633 | -1.265 | 1.132 | -2.137 | -0.085 |
| 310M | 0.509 | -0.514 | 0.702 | -1.986 | 0.346 | 0.009 | -2.274 | 0.702 | -2.274 | -0.458 |
| 311T | 0.869 | 0.455 | 1.029 | -1.914 | 0.711 | 0.608 | -1.290 | 1.029 | -1.914 | 0.067 |
| 312V | 0.275 | -0.036 | 0.917 | -1.914 | 0.747 | 0.610 | -0.702 | 0.917 | -1.914 | -0.015 |
| 313A | 0.553 | -0.036 | 1.066 | -1.785 | 0.902 | 0.630 | 0.468 | 1.066 | -1.785 | 0.257 |
| 314E | 0.952 | 0.592 | 1.075 | -1.551 | 0.856 | 0.613 | -0.487 | 1.075 | -1.551 | 0.293 |
| 315V | 0.389 | -0.188 | 0.758 | -1.251 | 0.692 | 0.594 | 0.061 | 0.758 | -1.251 | 0.151 |
| 316S | 0.983 | 0.267 | 0.870 | -1.036 | 0.656 | 0.593 | -0.527 | 0.983 | -1.036 | 0.258 |
| 317A | 0.269 | -0.589 | 0.786 | -1.166 | 0.665 | 0.598 | 0.918 | 0.918 | -1.166 | 0.212 |
| 318V | -0.092 | -0.913 | 0.702 | -1.377 | 0.574 | 0.017 | 1.164 | 1.164 | -1.377 | 0.011 |
| 319G | 0.275 | -1.224 | 0.823 | -1.498 | 0.583 | 0.016 | -0.435 | 0.823 | -1.498 | -0.208 |
| 320L | -0.642 | -1.947 | 0.533 | -1.596 | 0.410 | -0.002 | -0.273 | 0.533 | -1.947 | -0.502 |
| 321P | -0.894 | -1.384 | 0.786 | -1.564 | 0.647 | 0.017 | 1.069 | 1.069 | -1.564 | -0.189 |
| 322A | -0.894 | -1.947 | 0.786 | -1.736 | 0.647 | 0.017 | 1.069 | 1.069 | -1.947 | -0.294 |
| 323I | -1.122 | -1.588 | 1.038 | -1.800 | 0.966 | 0.036 | 1.289 | 1.289 | -1.800 | -0.169 |
| 324Y | -1.122 | -1.588 | 1.038 | -1.714 | 0.966 | 0.036 | 1.289 | 1.289 | -1.714 | -0.157 |
| 325V | -1.122 | -0.554 | 1.038 | -1.355 | 0.966 | 0.036 | 1.289 | 1.289 | -1.355 | 0.042 |
| 326P | -1.761 | 0.151 | 0.898 | -1.156 | 0.948 | 0.038 | 2.621 | 2.621 | -1.761 | 0.248 |
| 327L | -0.894 | 0.419 | 1.029 | -1.050 | 0.920 | 0.036 | 2.299 | 2.299 | -1.050 | 0.394 |
| 328P | -0.332 | 1.199 | 1.075 | -0.908 | 0.993 | 0.057 | 1.854 | 1.854 | -0.908 | 0.563 |
| 329I | 0.263 | 1.331 | 1.188 | -0.592 | 0.957 | 0.056 | 1.266 | 1.331 | -0.592 | 0.638 |
| 330G | 0.623 | 2.469 | 1.272 | -0.176 | 1.048 | 0.636 | 1.020 | 2.469 | -0.176 | 0.984 |
| 331N | 1.584 | 1.637 | 1.683 | 0.189 | 1.412 | 0.673 | 0.748 | 1.683 | 0.189 | 1.132 |
| 332G | 1.717 | 1.637 | 1.870 | -0.126 | 1.613 | 1.279 | 0.527 | 1.870 | -0.126 | 1.217 |
| 333E | 1.641 | 1.010 | 1.926 | -0.752 | 1.640 | 1.282 | 0.640 | 1.926 | -0.752 | 1.055 |
| 334Q | 1.723 | 0.231 | 2.234 | -0.951 | 1.996 | 1.323 | 0.527 | 2.234 | -0.951 | 1.012 |
| 335R | 1.413 | 0.099 | 1.935 | -1.006 | 1.686 | 1.282 | -0.370 | 1.935 | -1.006 | 0.720 |
| 336L | 0.471 | -0.811 | 1.860 | -0.461 | 1.741 | 1.288 | 0.065 | 1.860 | -0.811 | 0.593 |
| 337N | 0.111 | -0.703 | 1.776 | -0.066 | 1.649 | 0.707 | 0.311 | 1.776 | -0.703 | 0.541 |
| 338A | -0.503 | -0.703 | 1.328 | -0.199 | 1.267 | 0.666 | 0.736 | 1.328 | -0.703 | 0.370 |
| 339L | -1.002 | -0.703 | 0.776 | -0.617 | 0.784 | 0.043 | 1.326 | 1.326 | -1.002 | 0.087 |
| 340P | 0.022 | 0.129 | 1.160 | -0.573 | 1.084 | 0.079 | 0.778 | 1.160 | -0.573 | 0.383 |
| 341V | -0.288 | 0.397 | 0.860 | -0.552 | 0.774 | 0.038 | -0.119 | 0.860 | -0.552 | 0.159 |
| 342V | -0.060 | 1.121 | 0.851 | -0.021 | 0.729 | 0.038 | 0.891 | 1.121 | -0.060 | 0.507 |
| 343N | 0.882 | 1.103 | 0.926 | 0.149 | 0.674 | 0.033 | 0.457 | 1.103 | 0.033 | 0.603 |
| 344A | 1.110 | 0.397 | 0.674 | -0.184 | 0.355 | 0.014 | 0.237 | 1.110 | -0.184 | 0.372 |
| 345G | 1.078 | 0.301 | 0.786 | -0.908 | 0.410 | 0.029 | -0.407 | 1.078 | -0.908 | 0.184 |
| 346G | 1.078 | -0.326 | 0.786 | -1.525 | 0.410 | 0.029 | -0.407 | 1.078 | -1.525 | 0.006 |
| 347G | 0.402 | -0.414 | 0.365 | -2.189 | 0.091 | -0.010 | 0.295 | 0.402 | -2.189 | -0.209 |
| 348M | 0.402 | -1.041 | 0.365 | -2.356 | 0.091 | -0.010 | 0.295 | 0.402 | -2.356 | -0.322 |
| 349V | 0.673 | -0.927 | 0.646 | -2.127 | 0.455 | 0.479 | 0.286 | 0.673 | -2.127 | -0.074 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 350V | 0.446 | -1.035 | 0.655 | -1.696 | 0.501 | 0.479 | -0.725 | 0.655 | -1.696 | -0.196 |
| 351A | 0.218 | -0.448 | 0.664 | -1.132 | 0.547 | 0.479 | -1.735 | 0.664 | -1.735 | -0.201 |
| 352D | -0.098 | -0.090 | 0.589 | -0.881 | 0.510 | 0.467 | -1.245 | 0.589 | -1.245 | -0.107 |
| 353A | 0.465 | -0.054 | 0.907 | -0.953 | 0.674 | 0.486 | -1.793 | 0.907 | -1.793 | -0.038 |
| 354A | 0.832 | -0.258 | 1.272 | -1.140 | 0.957 | 0.503 | -2.162 | 1.272 | -2.162 | 0.001 |
| 355L | 1.192 | -0.354 | 1.599 | -1.108 | 1.321 | 1.103 | -1.178 | 1.599 | -1.178 | 0.368 |
| 356T | -0.022 | -0.150 | 1.244 | -1.075 | 1.011 | 0.619 | -0.734 | 1.244 | -1.075 | 0.128 |
| 357P | -0.389 | 0.173 | 1.122 | -1.064 | 1.002 | 0.621 | 0.865 | 1.122 | -1.064 | 0.333 |
| 358E | -0.389 | 0.305 | 1.122 | -1.408 | 1.002 | 0.621 | 0.865 | 1.122 | -1.408 | 0.303 |
| 359L | 0.459 | -0.366 | 1.636 | -1.883 | 1.467 | 1.240 | 0.429 | 1.636 | -1.883 | 0.426 |
| 360V | 0.509 | -0.162 | 1.767 | -2.132 | 1.686 | 1.262 | 0.551 | 1.767 | -2.132 | 0.497 |
| 361A | 0.142 | 0.562 | 1.403 | -2.186 | 1.403 | 1.245 | 0.920 | 1.403 | -2.186 | 0.498 |
| 362R | -0.218 | 0.357 | 1.075 | -1.984 | 1.039 | 0.645 | -0.064 | 1.075 | -1.984 | 0.122 |
| 363Q | 0.724 | -0.661 | 1.150 | -1.835 | 0.984 | 0.640 | -0.498 | 1.150 | -1.835 | 0.072 |
| 364V | 0.376 | -0.661 | 1.188 | -1.820 | 1.002 | 0.644 | -0.652 | 1.188 | -1.820 | 0.011 |
| 365A | -0.338 | -0.026 | 1.103 | -1.954 | 1.011 | 0.649 | 0.793 | 1.103 | -1.954 | 0.177 |
| 366G | -0.275 | 0.333 | 0.870 | -1.962 | 0.692 | 0.045 | 0.835 | 0.870 | -1.962 | 0.077 |
| 367L | -0.022 | -0.294 | 0.814 | -1.683 | 0.638 | 0.491 | 0.662 | 0.814 | -1.683 | 0.087 |
| 368L | 0.345 | 0.724 | 1.178 | -0.974 | 0.920 | 0.509 | 0.294 | 1.178 | -0.974 | 0.428 |
| 369T | 0.345 | 0.724 | 1.178 | -0.173 | 0.920 | 0.509 | 0.294 | 1.178 | -0.173 | 0.542 |
| 370D | 0.250 | 0.233 | 1.617 | 0.213 | 1.440 | 1.133 | 0.293 | 1.617 | 0.213 | 0.740 |
| 371P | 0.250 | -0.306 | 1.617 | -0.095 | 1.440 | 1.133 | 0.293 | 1.617 | -0.306 | 0.619 |
| 372A | 0.964 | -0.779 | 1.702 | -0.922 | 1.431 | 1.128 | -1.153 | 1.702 | -1.153 | 0.339 |
| 373R | 0.768 | -0.288 | 1.505 | -1.773 | 1.276 | 1.108 | -2.203 | 1.505 | -2.203 | 0.056 |
| 374L | -0.129 | -1.101 | 1.225 | -2.365 | 1.002 | 0.636 | -2.250 | 1.225 | -2.365 | -0.426 |
| 375A | 0.067 | -0.897 | 1.178 | -2.427 | 0.884 | 0.637 | -2.429 | 1.178 | -2.429 | -0.427 |
| 376A | 0.067 | -0.897 | 1.178 | -2.309 | 0.884 | 0.637 | -2.429 | 1.178 | -2.429 | -0.410 |
| 377M | -0.066 | -0.897 | 0.748 | -2.072 | 0.410 | 0.012 | -3.438 | 0.748 | -3.438 | -0.758 |
| 378T | 0.648 | 0.031 | 0.832 | -1.916 | 0.401 | 0.007 | -4.883 | 0.832 | -4.883 | -0.697 |
| 379A | 0.648 | -0.556 | 0.832 | -1.861 | 0.401 | 0.007 | -4.883 | 0.832 | -4.883 | -0.773 |
| 380A | 0.781 | 0.071 | 1.262 | -2.015 | 0.875 | 0.632 | -3.874 | 1.262 | -3.874 | -0.324 |
| 381A | 0.813 | 0.161 | 1.150 | -2.146 | 0.820 | 0.616 | -3.230 | 1.150 | -3.230 | -0.259 |
| 382A | 0.844 | 0.974 | 0.945 | -2.322 | 0.619 | 0.596 | -3.271 | 0.974 | -3.271 | -0.230 |
| 383R | 0.844 | 1.513 | 1.103 | -1.900 | 0.793 | 1.216 | -1.993 | 1.513 | -1.993 | 0.225 |
| 384V | 0.977 | 0.700 | 1.533 | -1.370 | 1.267 | 1.841 | -0.984 | 1.841 | -1.370 | 0.566 |
| 385G | 1.476 | 0.796 | 1.804 | -0.361 | 1.586 | 2.330 | 0.017 | 2.330 | -0.361 | 1.093 |
| 386H | 1.476 | 0.796 | 1.804 | 0.224 | 1.586 | 2.330 | 0.017 | 2.330 | 0.017 | 1.176 |
| 387R | 1.344 | 1.197 | 1.375 | 0.432 | 1.112 | 1.705 | -0.992 | 1.705 | -0.992 | 0.882 |
| 388D | 1.938 | 0.287 | 1.487 | -0.029 | 1.075 | 1.703 | -1.580 | 1.938 | -1.580 | 0.697 |
| 389A | 1.957 | -0.252 | 1.823 | -0.523 | 1.494 | 1.746 | -1.417 | 1.957 | -1.417 | 0.690 |
| 390A | 1.590 | 0.562 | 1.543 | -1.192 | 1.312 | 1.127 | -1.096 | 1.590 | -1.192 | 0.549 |
| 391G | 1.457 | 0.562 | 1.113 | -1.319 | 0.838 | 0.503 | -2.105 | 1.457 | -2.105 | 0.150 |
| 392Q | 1.091 | -0.066 | 1.272 | -1.623 | 0.993 | 0.638 | -2.097 | 1.272 | -2.097 | 0.030 |
| 393V | 1.091 | -0.761 | 1.272 | -1.794 | 0.993 | 0.638 | -2.097 | 1.272 | -2.097 | -0.094 |
| 394A | 1.091 | -0.665 | 1.272 | -2.079 | 0.993 | 0.638 | -2.097 | 1.272 | -2.097 | -0.121 |
| 395R | 0.149 | -0.761 | 1.197 | -2.292 | 1.048 | 0.644 | -1.662 | 1.197 | -2.292 | -0.240 |
| 396A | -0.098 | -1.574 | 0.870 | -2.405 | 0.674 | 0.601 | -2.836 | 0.870 | -2.836 | -0.681 |
| 397A | -0.098 | -1.083 | 0.870 | -2.378 | 0.674 | 0.601 | -2.836 | 0.870 | -2.836 | -0.607 |
| 398L | -0.098 | -0.456 | 0.870 | -2.346 | 0.674 | 0.601 | -2.836 | 0.870 | -2.836 | -0.513 |
| 399A | -0.035 | -0.252 | 0.636 | -2.160 | 0.355 | -0.003 | -2.794 | 0.636 | -2.794 | -0.608 |
| 400V | 0.193 | 0.375 | 0.627 | -1.930 | 0.310 | -0.003 | -1.784 | 0.627 | -1.930 | -0.316 |
| 401A | 0.193 | 0.471 | 0.627 | -1.647 | 0.310 | -0.003 | -1.784 | 0.627 | -1.784 | -0.262 |
| 402T | 1.135 | 1.285 | 0.702 | -1.455 | 0.255 | -0.009 | -2.218 | 1.285 | -2.218 | -0.044 |
| 403G | 1.135 | 1.285 | 0.702 | -1.474 | 0.255 | -0.009 | -2.218 | 1.285 | -2.218 | -0.046 |
| 404A | 1.634 | 1.149 | 1.253 | -1.695 | 0.738 | 0.614 | -2.808 | 1.634 | -2.808 | 0.126 |
| 405G | 1.830 | 1.639 | 1.449 | -1.805 | 0.893 | 0.634 | -1.757 | 1.830 | -1.805 | 0.412 |
| 406A | 1.830 | 1.267 | 1.449 | -1.771 | 0.893 | 0.634 | -1.757 | 1.830 | -1.771 | 0.364 |
| 407R | 1.799 | 1.521 | 1.655 | -1.373 | 1.093 | 0.654 | -1.717 | 1.799 | -1.717 | 0.519 |
| 408T | 1.666 | 0.962 | 1.197 | -0.834 | 1.412 | 0.714 | -1.717 | 1.666 | -1.717 | 0.486 |

| 409T | 1.306 | 0.726 | 0.748 | -0.365 | 1.777 | 0.774 | -2.727 | 1.777 | -2.727 | 0.320 |
|------|-------|-------|-------|--------|-------|-------|--------|-------|--------|-------|
| 410T | 1.173 | 0.489 | 0.290 | -0.148 | 2.096 | 0.835 | -2.727 | 2.096 | -2.727 | 0.287 |

**TOP**

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**Overlap Display**

**Selected Programs: hydro flexi access turns surface polar antipro**

**Respective Threshold: 1.9 2 1.9 2.4 2.3 1.8 1.9**

**The predicted B-cell epitopes are shown in blue colour and underlined.**

| Sequence | $^1$VKDTVSQPAGGRGATAPRPADAASPSCGSSPSADSVSVVLAGGGTAGHVEPAMAVADALVALDPRVRITALGTLRGLETRLVPQRGYHLELITAVPMPRKPGGDLARLPSRVWRAVREARDVLDDVDADVVVGFGGYVALPAYLAARGLPLPPRRRRRIPVVIHEANARAGLANRVGAHTADRVLSAVPDSGLRRAEVVGVPVRASIAALDRAVLRAEARAHFGFPDDARVLLVFGGSQGAVSLNRAVSGAAADLAAAGVCVLHAHGPQNVLELRRRAQGDPPYVAVPYLDRMELAYAAADLVICRAGAMTVAEVSAVGLPAIYVPLPIGNGEQRLNALPVVNAGGGMVVADAALTPELVARQVAGLLTDPARLAAMTAAAARVGHRDAAGQVARAALAVATGAGARTTT$^{410}$ |
|---|---|
| Hydrophilicity | $^1$V<u>KDTVSQPAGGRG</u>ATAPRP<u>ADAASPSCGSSPSADS</u>VSVVL<u>AGGGTAGH</u>VEPAMAVADALVALDPRVRITALGTLRGLETRLVPQRGYHLELITAVPM<u>PRKPGGD</u>LARLPSRVWRAVREARDVL<u>DDVDADV</u>VVGFGGYVALPAYLAARGLPLPPRRRRRIPVVIHEANARAGLANRV<u>GAHTADR</u>VLSAVPDSGLRRAEVVGVPVRASIAALDRAVLRAEARAHFGFPDDARVLLVFGGSQGAVSLNRAVSGAAADLAAAGVCVLHAHGPQNVLEL<u>RRRAQGDPP</u>YVAVPYLDRMELAYAAADLVICRAGAMTVAEVSAVGLPAIYVPLPIGNGEQRLNALPVVNAGGGMVVADAALTPELVARQVAGLLTDPARLAAMTAAAARV<u>GHRDAAGQ</u>VARAALAVATGAGARTTT$^{410}$ |
| Flexibility | $^1$VKDTVSQPAGGRGATAPRPA<u>DAASPSCGSSPSA</u>DSVSVVLAGGGTAGHVEPAMAVADALVALDPRVRITALGTLRGLETRLVPQRGYHLELITA<u>VPMPRKPG</u>GDLARLPSRVWRAVREARDVLDDVDADVVVGFGGYVALPAYLAARG<u>LPLPPRRRRR</u>IPVVIHEANARAGLANRVGAHTADRVLS<u>AVPDSGL</u>RRAEVVGVPVRASIAALDRAVLRAEARAHFGFPDDARVLLVFGGSQGAVSLNRAVSGAAADLAAAGVCVLHAHGPQNV<u>LELRRRAQ</u>GDPPYVAVPYLDRMELAYAAADLVICRAGAMTVAEVSAVGLPAIYVP<u>LPIGNGE</u>QRLNALPVVNAGGGMVVADAALTPELVARQVAGLLTDPARLAAMTAAAARVGHRDAAGQVARAALAVATGAGARTTT$^{410}$ |
| Accessibility | $^1$V<u>KDTVSQP</u>AGG<u>RGATAPRPAD</u>AASPSCGSSPSADSVSVVLAGGGTAGHVEPAMAVADALVAL<u>DPRVRIT</u>ALGTLRGL<u>ETRLVPQRGYHLE</u>LITA<u>VPMPRKPGGDL</u>ARLPSRVW<u>RAVREARD</u>VLDDVDADVVVGFGGYVALPAYLAARG<u>LPLPPRRRRRIPV</u>VIHEANARAGLANRVGAHTADRVLSAV<u>PDSGLR</u>RAEVVGVPVRASIAALDRAVL<u>RAEARAH</u>FGFPDDARVLLVFGGSQGAVSLNRAVSGAAADLAAAGVCVLHAHGPQN<u>VLELRRRAQGDPPY</u>VAV<u>PYLDRME</u>LAYAAADLVICRAGAMTVAEVSAVGLPAIYVPLPI<u>GNGEQRLNA</u>LPVVNAGGGMVVADAALTPELVARQVAGLLTDPARLAAMTAAAARVGHRDAAGQVARAALAVATGAGARTTT$^{410}$ |

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|---|---|
| Turns | [1]VKDTVSQPAGGRGATAPRPADAASPSCGSSPSADSVSVVLAGGGTAGHVEPAMAVADALVALDP RVRITALGTLRGLETRLVPQRGYHLELITAVPMPRKPGGDLARLPSRVWRAVREARDVLDDVDAD VVVGFGGYVALPAYLAARGLPLPPRRRRRIPVVIHEANARAGLANRVGAHTADRVLSAVPDSGLR RAEVVGVPVRASIAALDRAVLRAEARAHFGFPDDARVLLVFGGSQGAVSLNRAVSGAAADLAAAG VCVLHAHGPQNVLELRRRAQGDPPYVAVPYLDRMELAYAAADLVICRAGAMTVAEVSAVGLPAIYV PLPIGNGEQRLNALPVVNAGGGMVVADAALTPELVARQVAGLLTDPARLAAMTAAAARVGHRDAA GQVARAALAVATGAGARTTT[410] |
| Exposed Surface | [1]VKDTVSQPAGGRGATAPRPADAASPSCGSSPSADSVSVVLAGGGTAGHVEPAMAVADALVALDP RVRITALGTLRGLETRLVPQRGYHLELITAVPMPRKPGGDLARLPSRVWRAVREARDVLDDVDAD VVVGFGGYVALPAYLAARGL_PLPPRRRRRIPV_VIHEANARAGLANRVGAHTADRVLSAVPDSGLR RAEVVGVPVRASIAALDRAVLRAEARAHFGFPDDARVLLVFGGSQGAVSLNRAVSGAAADLAAAG VCVLHAHGPQNVL_ELRRRAQ_GDPPYVAVPYLDRMELAYAAADLVICRAGAMTVAEVSAVGLPAIYV PLPIGNGEQRLNALPVVNAGGGMVVADAALTPELVARQVAGLLTDPARLAAMTAAAARVGHRDAA GQVARAALAVATGAGARTTT[410] |
| Polarity | [1]VKDTVSQPAGGRGATAPRPADAASPSCGSSPSADSVSVVLAGGGTAGHVEPAMAVADALVALDP RVRITALGT_LRGLETRL_VP_QRGYHLEL_ITAVPMPRKPGGDLARLPS_RVWRAVREARDVLDDVDAD V_VVGFGGYVALPAYLAARGL_PLPPRRRRRIPVVIHEANARA_GLANRVGAHTADRVLSAVPD_SGLR RAEVVG_VPVRASIAALD_RAVLRAEARAHFG_FPDDARVLLVFGGSQGAVSLNRAVSGAAADLAAAG VCVLHAHGPQ_NVLELRRRAQGD_PPYVAVPYLDRMELAYAAADLVICRAGAMTVAEVSAVGLPAIYV PLPIGNGEQRLNALPVVNAGGGMVVADAALTPELVARQVAGLLTDPARLAAMTAA_AARVGHRDA_A GQVARAALAVATGAGARTTT[410] |
| Antigenic Propensity | [1]VKDTVSQPAGGRGATAPRPADAASPSCGSSPSA_DSVSVVL_AGGGTAGHVEPAMAVADALVALDP RVRITALGTLRGLETR_LVPQRGYHLELIT_AVPMPRKPGGDLARLPSRVWRAVREARDVLDDVDA_D VVVGFGGYV_ALPAYLAARGLPLPPRRR_RRIPVVIHE_ANARAGLANRVGAHTADRVLSAVPDSGLR RA_EVVGVPVR_ASIAALDRAVLRAEARAHFGFPDDA_RVLLVFGGS_QGAVSLNRAVSGAAADLAAAG _VCVLHAH_GPQNVLELRRRAQGDPPYVAVPYLDRMELAYAAADLVICRAGAMTVAEVSAVGLPA_IYV PLPIG_NGEQRLNALPVVNAGGGMVVADAALTPELVARQVAGLLTDPARLAAMTAAAARVGHRDAA GQVARAALAVATGAGARTTT[410] |

**Home**