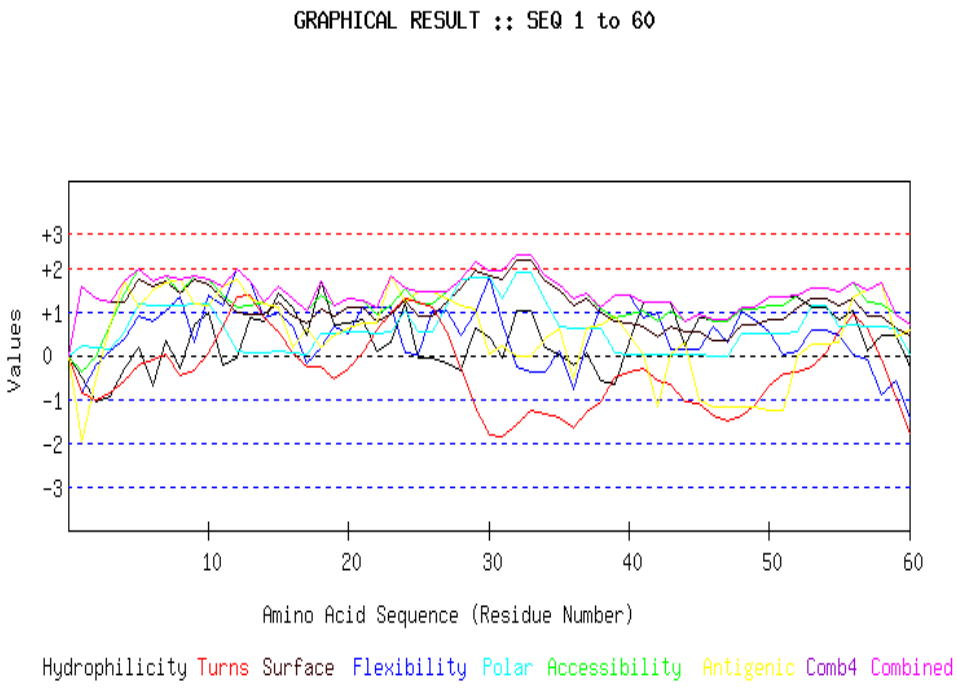
BcePred Prediction Server

The server displays 1.GRAPHICAL RESULT 2.TABULAR RESULT 3.Overlap Display

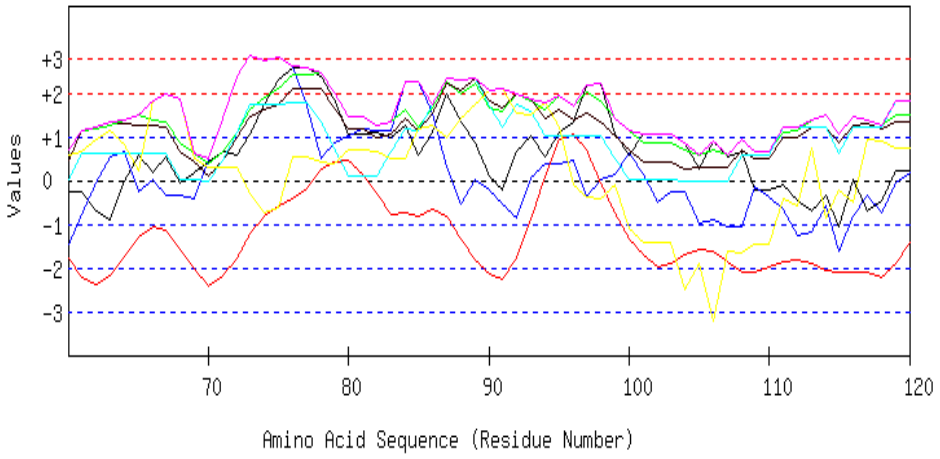
seqname=
Seq=VTWPLPDRLSINSLSGTPAVDLSSFTDFLRRQAPELLPASISGGAPLAGGDAQLPHGTTIVALKYPGGVVMA
GDRRSTQGNMISGRDVRKVYITDDYTATGIAGTAAVAVEFARLYAVELEHYEKLEGVPLTFAGKINRLAIMVRGNLA
AAMQGLLALPLLAGYDIHASDPQSAGRIVSFDAAGGWNIEEEGYQAVGSGSLFAKSSMKKLYSQVTDGDSGLRV
AVEALYDAADDDSATGGPDLVRGIFPTAVIIDADGAVDVPESRIAELARAIIESRSGADTFGSDGGEK

Length=291

**GRAPHICAL RESULT**

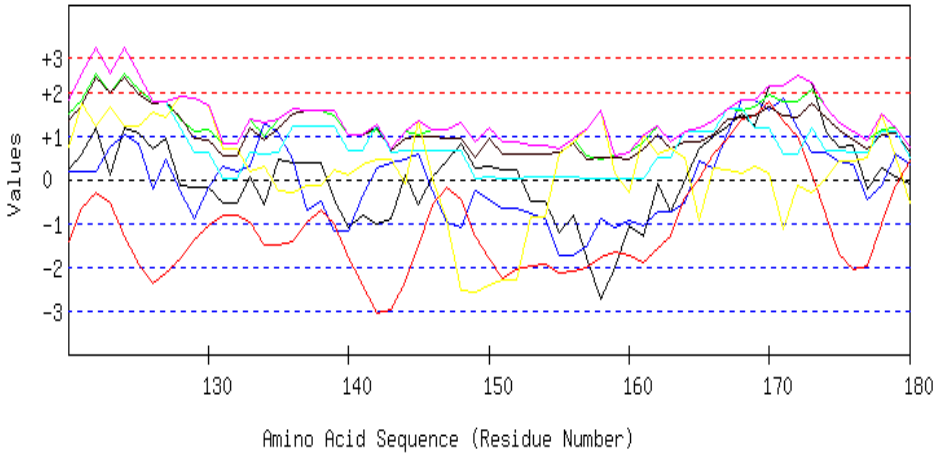


GRAPHICAL RESULT :: SEQ 61 to 120



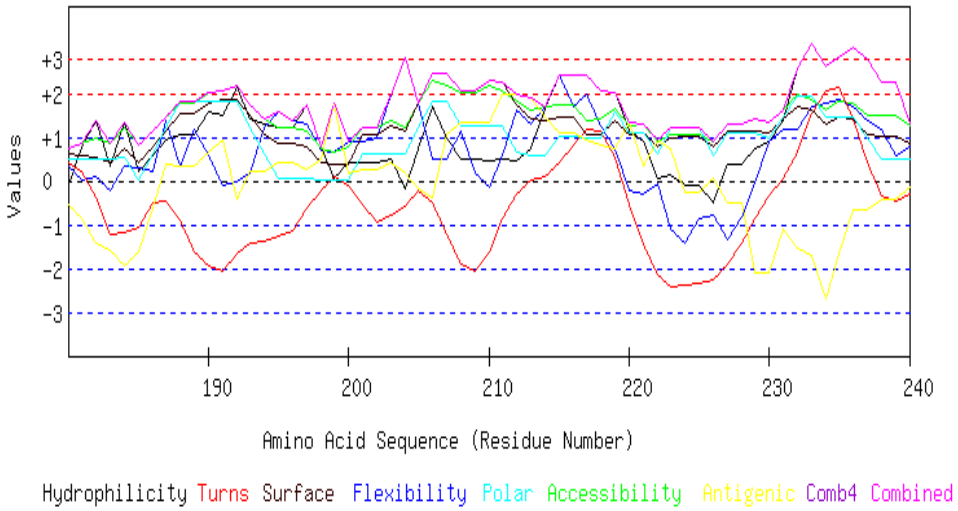

Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 121 to 180

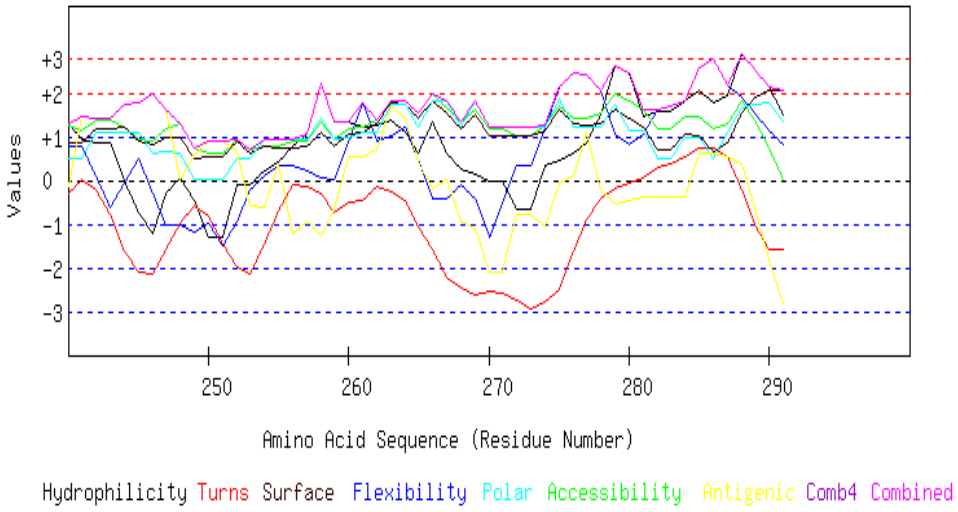



Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 181 to 240



GRAPHICAL RESULT :: SEQ 241 to 300




TOP

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**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**

**VTWPLPDRLSINSLSGTPAVDLSSFTDFLRRQAPELLPASISGGAPLAGGDAQLPHGTTI**
**VALKYPGGVVMAGDRRSTQGNMISGRDVRKVYITDDYTATGIAGTAAVAVEFARLYAVEL**
**EHYEKLEGVPLTFAGKINRLAIMVRGNLAAAMQGLLALPLLAGYDIHASDPQSAGRIVSF**
**DAAGGWNIEEEGYQAVGSGSLFAKSSMKKLYSQVTDGDSGLRVAVEALYDAADDDSATGG**
**PDLVRGIFPTAVIIDADGAVDVPESRIAELARAIIESRSGADTFGSDGGEK**

**Length=291**

| A.A. | | Parameter | | | | | | | Combined | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Hydro | Flexi | Access | Turns | Surface | Polar | AntiPro | MAX | MIN | AVG |
| 1 | V | -0.484 | -0.869 | -0.392 | -0.865 | 1.595 | 0.216 | -1.977 | 1.595 | -1.977 | -0.397 |
| 2 | T | -1.065 | -0.234 | -0.018 | -1.006 | 1.285 | 0.161 | -0.532 | 1.285 | -1.065 | -0.201 |
| 3 | W | -0.932 | 0.089 | 0.683 | -0.877 | 1.239 | 0.120 | 0.698 | 1.239 | -0.932 | 0.146 |
| 4 | P | -0.300 | 0.387 | 1.412 | -0.588 | 1.239 | 0.549 | 1.699 | 1.699 | -0.588 | 0.628 |
| 5 | L | 0.199 | 0.884 | 1.963 | -0.226 | 1.722 | 1.172 | 1.110 | 1.963 | -0.226 | 0.975 |
| 6 | P | -0.711 | 0.764 | 1.683 | -0.088 | 1.576 | 1.157 | 1.504 | 1.683 | -0.711 | 0.841 |
| 7 | D | 0.332 | 1.014 | 1.814 | 0.000 | 1.713 | 1.152 | 1.642 | 1.814 | 0.000 | 1.095 |
| 8 | R | -0.307 | 1.331 | 1.431 | -0.455 | 1.422 | 1.135 | 1.743 | 1.743 | -0.455 | 0.900 |
| 9 | L | 0.718 | 0.313 | 1.814 | -0.331 | 1.722 | 1.170 | 1.195 | 1.814 | -0.331 | 0.943 |
| 10 | S | 0.996 | 1.373 | 1.720 | 0.056 | 1.604 | 1.171 | 1.135 | 1.720 | 0.056 | 1.151 |
| 11 | I | -0.218 | 1.145 | 1.365 | 0.679 | 1.294 | 0.688 | 1.579 | 1.579 | -0.218 | 0.933 |
| 12 | N | -0.073 | 1.960 | 1.085 | 1.324 | 0.975 | 0.083 | 1.740 | 1.960 | -0.073 | 1.014 |
| 13 | S | 0.869 | 1.710 | 1.160 | 1.361 | 0.920 | 0.078 | 1.305 | 1.710 | 0.078 | 1.058 |
| 14 | L | 0.787 | 0.854 | 1.206 | 0.870 | 0.920 | 0.078 | 1.186 | 1.206 | 0.078 | 0.843 |
| 15 | S | 1.426 | 0.962 | 1.589 | 0.533 | 1.212 | 0.095 | 1.084 | 1.589 | 0.095 | 0.986 |
| 16 | G | 1.116 | 0.646 | 1.290 | 0.071 | 0.902 | 0.054 | 0.187 | 1.290 | 0.054 | 0.609 |
| 17 | T | 0.471 | -0.186 | 1.019 | -0.245 | 0.738 | 0.036 | 0.616 | 1.019 | -0.245 | 0.350 |
| 18 | P | 1.685 | 0.179 | 1.375 | -0.260 | 1.048 | 0.519 | 0.172 | 1.685 | -0.260 | 0.674 |
| 19 | A | 0.692 | 0.676 | 1.141 | -0.550 | 0.902 | 0.505 | 0.447 | 1.141 | -0.550 | 0.545 |
| 20 | V | 0.743 | 0.501 | 1.300 | -0.308 | 1.103 | 0.525 | 0.607 | 1.300 | -0.308 | 0.639 |
| 21 | D | 0.825 | 1.089 | 1.253 | 0.072 | 1.103 | 0.525 | 0.726 | 1.253 | 0.072 | 0.799 |
| 22 | L | 0.111 | 1.089 | 0.945 | 0.566 | 0.784 | 0.510 | 0.757 | 1.089 | 0.111 | 0.680 |
| 23 | S | 0.307 | 1.119 | 1.141 | 0.963 | 0.938 | 0.530 | 1.808 | 1.808 | 0.307 | 0.972 |
| 24 | S | 1.173 | 0.059 | 1.533 | 1.301 | 1.267 | 1.017 | 1.210 | 1.533 | 0.059 | 1.080 |
| 25 | F | -0.041 | 0.017 | 1.197 | 1.216 | 0.902 | 0.533 | 1.471 | 1.471 | -0.041 | 0.756 |
| 26 | T | -0.041 | 1.004 | 1.197 | 1.111 | 0.902 | 0.533 | 1.471 | 1.471 | -0.041 | 0.882 |
| 27 | D | -0.186 | 1.004 | 1.477 | 0.556 | 1.221 | 1.137 | 1.310 | 1.477 | -0.186 | 0.931 |
| 28 | F | -0.332 | 0.465 | 1.758 | -0.315 | 1.540 | 1.742 | 1.149 | 1.758 | -0.332 | 0.858 |
| 29 | L | 0.629 | 0.998 | 2.150 | -1.179 | 1.959 | 1.780 | 1.061 | 2.150 | -1.179 | 1.057 |
| 30 | R | 0.433 | 1.778 | 1.954 | -1.815 | 1.804 | 1.760 | 0.010 | 1.954 | -1.815 | 0.846 |
| 31 | R | -0.066 | 0.760 | 1.926 | -1.864 | 1.759 | 1.290 | 0.239 | 1.926 | -1.864 | 0.578 |
| 32 | Q | 1.009 | -0.258 | 2.318 | -1.591 | 2.169 | 1.886 | -0.038 | 2.318 | -1.591 | 0.785 |
| 33 | A | 1.009 | -0.390 | 2.318 | -1.270 | 2.169 | 1.886 | -0.038 | 2.318 | -1.270 | 0.812 |
| 34 | P | 0.161 | -0.390 | 1.804 | -1.329 | 1.704 | 1.266 | 0.398 | 1.804 | -1.329 | 0.516 |
| 35 | E | 0.029 | 0.107 | 1.617 | -1.431 | 1.504 | 0.661 | 0.619 | 1.617 | -1.431 | 0.443 |
| 36 | L | -0.218 | -0.793 | 1.290 | -1.664 | 1.130 | 0.618 | -0.555 | 1.290 | -1.664 | -0.027 |
| 37 | L | 0.060 | 0.267 | 1.440 | -1.303 | 1.285 | 0.638 | 0.615 | 1.440 | -1.303 | 0.429 |
| 38 | P | -0.578 | 1.099 | 1.057 | -1.072 | 0.993 | 0.621 | 0.717 | 1.099 | -1.072 | 0.405 |
| 39 | A | -0.661 | 1.367 | 0.879 | -0.510 | 0.784 | 0.042 | 0.903 | 1.367 | -0.661 | 0.401 |
| 40 | S | 0.281 | 1.367 | 0.954 | -0.374 | 0.729 | 0.036 | 0.468 | 1.367 | -0.374 | 0.495 |
| 41 | I | 1.224 | 0.870 | 1.029 | -0.283 | 0.674 | 0.031 | 0.034 | 1.224 | -0.283 | 0.511 |
| 42 | S | 1.224 | 0.990 | 0.786 | -0.586 | 0.401 | 0.012 | -1.197 | 1.224 | -1.197 | 0.233 |
| 43 | G | 1.224 | 0.135 | 1.029 | -0.672 | 0.674 | 0.031 | 0.034 | 1.224 | -0.672 | 0.350 |
| 44 | G | 0.231 | 0.135 | 0.795 | -1.065 | 0.528 | 0.016 | 0.309 | 0.795 | -1.065 | 0.136 |
| 45 | A | 0.869 | 0.135 | 0.935 | -1.107 | 0.547 | 0.014 | -1.023 | 0.935 | -1.107 | 0.053 |
| 46 | P | 0.819 | 0.674 | 0.776 | -1.362 | 0.346 | -0.006 | -1.183 | 0.819 | -1.362 | 0.009 |
| 47 | L | 0.819 | 0.315 | 0.776 | -1.485 | 0.346 | -0.006 | -1.183 | 0.819 | -1.485 | -0.060 |
| 48 | A | 1.091 | 1.010 | 1.057 | -1.396 | 0.711 | 0.483 | -1.192 | 1.091 | -1.396 | 0.252 |
| 49 | G | 1.091 | 0.806 | 1.057 | -1.136 | 0.711 | 0.483 | -1.192 | 1.091 | -1.192 | 0.260 |
| 50 | G | 1.337 | 0.538 | 1.141 | -0.684 | 0.811 | 0.507 | -1.249 | 1.337 | -1.249 | 0.343 |
| 51 | D | 1.337 | 0.001 | 1.141 | -0.434 | 0.811 | 0.507 | -1.249 | 1.337 | -1.249 | 0.302 |
| 52 | A | 1.337 | 0.089 | 1.384 | -0.376 | 1.084 | 0.526 | -0.018 | 1.384 | -0.376 | 0.575 |
| 53 | Q | 1.110 | 0.580 | 1.552 | -0.273 | 1.303 | 1.145 | 0.249 | 1.552 | -0.273 | 0.809 |
| 54 | L | 1.110 | 0.580 | 1.552 | 0.065 | 1.303 | 1.145 | 0.249 | 1.552 | 0.065 | 0.858 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 55 P | 0.806 | 0.459 | 1.477 | 0.540 | 1.139 | 0.676 | 0.298 | 1.477 | 0.298 | 0.771 |
| 56 H | 1.002 | 0.005 | 1.674 | 0.931 | 1.294 | 0.696 | 1.349 | 1.674 | 0.005 | 0.993 |
| 57 G | 0.117 | -0.086 | 1.206 | 0.613 | 0.902 | 0.656 | 1.508 | 1.508 | -0.086 | 0.702 |
| 58 T | 0.465 | -0.917 | 1.169 | -0.081 | 0.884 | 0.652 | 1.661 | 1.661 | -0.917 | 0.547 |
| 59 T | 0.465 | -0.576 | 0.926 | -0.959 | 0.610 | 0.633 | 0.431 | 0.926 | -0.959 | 0.219 |
| 60 I | -0.250 | -1.474 | 0.683 | -1.791 | 0.446 | 0.019 | 0.599 | 0.683 | -1.791 | -0.253 |
| 61 V | -0.250 | -0.791 | 1.141 | -2.205 | 1.130 | 0.613 | 0.664 | 1.141 | -2.205 | 0.043 |
| 62 A | -0.698 | -0.068 | 1.197 | -2.367 | 1.212 | 0.613 | 0.955 | 1.212 | -2.367 | 0.120 |
| 63 L | -0.894 | 0.560 | 1.244 | -2.198 | 1.330 | 0.612 | 1.134 | 1.330 | -2.198 | 0.255 |
| 64 K | -0.028 | 0.668 | 1.375 | -1.760 | 1.303 | 0.610 | 0.813 | 1.375 | -1.760 | 0.426 |
| 65 Y | 0.566 | -0.260 | 1.487 | -1.303 | 1.267 | 0.608 | 0.224 | 1.487 | -1.303 | 0.370 |
| 66 P | 0.199 | 0.033 | 1.365 | -1.068 | 1.257 | 0.610 | 1.823 | 1.823 | -1.068 | 0.603 |
| 67 G | 0.547 | -0.326 | 1.328 | -1.152 | 1.239 | 0.606 | 1.977 | 1.977 | -1.152 | 0.603 |
| 68 G | -0.079 | -0.326 | 0.870 | -1.576 | 0.647 | 0.028 | 1.857 | 1.857 | -1.576 | 0.203 |
| 69 V | 0.174 | -0.414 | 0.618 | -2.031 | 0.410 | 0.009 | 0.514 | 0.618 | -2.031 | -0.103 |
| 70 V | 0.402 | 0.495 | 0.365 | -2.400 | 0.091 | -0.010 | 0.295 | 0.495 | -2.400 | -0.109 |
| 71 M | 0.673 | 1.405 | 0.646 | -2.170 | 0.455 | 0.479 | 0.286 | 1.405 | -2.170 | 0.253 |
| 72 A | 0.579 | 2.375 | 1.085 | -1.769 | 0.975 | 1.104 | 0.284 | 2.375 | -1.769 | 0.662 |
| 73 G | 1.078 | 2.866 | 1.636 | -1.217 | 1.458 | 1.727 | -0.305 | 2.866 | -1.217 | 1.035 |
| 74 D | 1.723 | 2.729 | 1.907 | -0.804 | 1.622 | 1.745 | -0.734 | 2.729 | -0.804 | 1.170 |
| 75 R | 2.317 | 2.818 | 2.113 | -0.596 | 1.731 | 1.748 | -0.638 | 2.818 | -0.638 | 1.356 |
| 76 R | 2.564 | 2.613 | 2.440 | -0.423 | 2.105 | 1.791 | 0.535 | 2.613 | -0.423 | 1.661 |
| 77 S | 2.564 | 1.686 | 2.440 | -0.185 | 2.105 | 1.791 | 0.535 | 2.564 | -0.185 | 1.562 |
| 78 T | 2.374 | 0.505 | 2.468 | 0.242 | 2.096 | 1.342 | 0.431 | 2.468 | 0.242 | 1.351 |
| 79 Q | 1.843 | 0.870 | 2.029 | 0.432 | 1.668 | 0.735 | 0.377 | 2.029 | 0.377 | 1.136 |
| 80 G | 1.072 | 1.006 | 1.459 | 0.458 | 1.175 | 0.112 | 0.699 | 1.459 | 0.112 | 0.854 |
| 81 N | 1.072 | 1.193 | 1.459 | 0.139 | 1.175 | 0.112 | 0.699 | 1.459 | 0.112 | 0.835 |
| 82 M | 1.103 | 1.123 | 1.253 | -0.308 | 0.975 | 0.092 | 0.659 | 1.253 | -0.308 | 0.700 |
| 83 I | 0.990 | 1.141 | 1.356 | -0.797 | 1.075 | 0.674 | 0.495 | 1.356 | -0.797 | 0.705 |
| 84 S | 1.261 | 2.279 | 1.636 | -0.744 | 1.440 | 1.163 | 0.486 | 2.279 | -0.744 | 1.074 |
| 85 G | 0.585 | 2.255 | 1.216 | -0.818 | 1.121 | 1.124 | 1.187 | 2.255 | -0.818 | 0.953 |
| 86 R | 1.116 | 1.531 | 1.655 | -0.656 | 1.549 | 1.732 | 1.242 | 1.732 | -0.656 | 1.167 |
| 87 D | 1.982 | 0.311 | 2.244 | -0.816 | 2.205 | 2.324 | 0.985 | 2.324 | -0.816 | 1.319 |
| 88 V | 1.337 | -0.552 | 1.973 | -1.345 | 2.041 | 2.306 | 1.414 | 2.306 | -1.345 | 1.025 |
| 89 R | 0.857 | 0.035 | 2.234 | -1.827 | 2.324 | 2.325 | 1.746 | 2.325 | -1.827 | 1.099 |
| 90 K | 0.085 | -0.240 | 1.664 | -2.156 | 1.832 | 1.702 | 2.068 | 2.068 | -2.156 | 0.708 |
| 91 V | -0.218 | -0.532 | 1.589 | -2.244 | 1.668 | 1.233 | 2.118 | 2.118 | -2.244 | 0.516 |
| 92 Y | 0.648 | -0.843 | 1.982 | -1.778 | 1.996 | 1.721 | 1.520 | 1.996 | -1.778 | 0.749 |
| 93 I | 1.015 | 0.055 | 1.823 | -0.901 | 1.841 | 1.585 | 1.512 | 1.841 | -0.901 | 0.990 |
| 94 T | 0.534 | 0.379 | 1.627 | 0.082 | 1.440 | 1.010 | 1.779 | 1.779 | 0.082 | 0.979 |
| 95 D | 1.097 | 0.379 | 1.945 | 0.952 | 1.604 | 1.028 | 1.231 | 1.945 | 0.379 | 1.177 |
| 96 D | 1.350 | 0.467 | 1.692 | 1.046 | 1.367 | 1.009 | -0.111 | 1.692 | -0.111 | 0.974 |
| 97 Y | 2.185 | -0.396 | 2.029 | 0.691 | 1.540 | 1.027 | -0.392 | 2.185 | -0.396 | 0.955 |
| 98 T | 2.216 | 0.011 | 1.823 | -0.060 | 1.339 | 1.007 | -0.432 | 2.216 | -0.432 | 0.843 |
| 99 A | 1.078 | 0.147 | 1.412 | -0.750 | 1.002 | 0.520 | -0.102 | 1.412 | -0.750 | 0.472 |
| 100T | 0.579 | 0.638 | 1.141 | -1.322 | 0.683 | 0.031 | -1.103 | 1.141 | -1.322 | 0.092 |
| 101G | 1.059 | 0.147 | 0.879 | -1.719 | 0.401 | 0.012 | -1.435 | 1.059 | -1.719 | -0.094 |
| 102I | 1.059 | -0.480 | 0.879 | -1.967 | 0.401 | 0.012 | -1.435 | 1.059 | -1.967 | -0.219 |
| 103A | 1.059 | -0.252 | 0.879 | -1.913 | 0.401 | 0.012 | -1.435 | 1.059 | -1.913 | -0.178 |
| 104G | 0.863 | -0.252 | 0.683 | -1.707 | 0.246 | -0.008 | -2.486 | 0.863 | -2.486 | -0.380 |
| 105T | 0.269 | -0.975 | 0.571 | -1.572 | 0.282 | -0.007 | -1.897 | 0.571 | -1.897 | -0.476 |
| 106A | 0.907 | -0.891 | 0.711 | -1.615 | 0.300 | -0.009 | -3.229 | 0.907 | -3.229 | -0.546 |
| 107A | 0.541 | -1.065 | 0.589 | -1.874 | 0.291 | -0.007 | -1.630 | 0.589 | -1.874 | -0.451 |
| 108V | 0.673 | -1.065 | 0.926 | -2.086 | 0.701 | 0.592 | -1.657 | 0.926 | -2.086 | -0.274 |
| 109A | -0.237 | -0.156 | 0.664 | -2.119 | 0.501 | 0.577 | -1.446 | 0.664 | -2.119 | -0.317 |
| 110V | -0.237 | -0.360 | 0.664 | -1.993 | 0.501 | 0.577 | -1.446 | 0.664 | -1.993 | -0.328 |
| 111E | -0.104 | -0.671 | 1.094 | -1.844 | 0.975 | 1.201 | -0.437 | 1.201 | -1.844 | 0.031 |
| 112F | -0.452 | -1.246 | 1.132 | -1.831 | 0.993 | 1.205 | -0.591 | 1.205 | -1.831 | -0.113 |
| 113A | -0.705 | -1.168 | 1.384 | -1.913 | 1.230 | 1.225 | 0.751 | 1.384 | -1.913 | 0.115 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 114R | -0.338 | -0.593 | 1.505 | -2.078 | 1.239 | 1.223 | -0.847 | 1.505 | -2.078 | 0.016 |
| 115L | -1.065 | -1.610 | 1.057 | -2.101 | 0.866 | 0.625 | -0.232 | 1.057 | -2.101 | -0.352 |
| 116Y | 0.010 | -0.831 | 1.449 | -2.119 | 1.276 | 1.220 | -0.510 | 1.449 | -2.119 | 0.071 |
| 117A | -0.705 | -0.334 | 1.365 | -2.113 | 1.285 | 1.226 | 0.935 | 1.365 | -2.113 | 0.237 |
| 118V | -0.477 | -0.741 | 1.262 | -2.211 | 1.175 | 1.201 | 0.910 | 1.262 | -2.211 | 0.160 |
| 119E | 0.237 | -0.070 | 1.505 | -1.911 | 1.339 | 1.815 | 0.742 | 1.815 | -1.911 | 0.523 |
| 120L | 0.237 | 0.187 | 1.505 | -1.435 | 1.339 | 1.815 | 0.742 | 1.815 | -1.435 | 0.627 |
| 121E | 0.598 | 0.187 | 1.832 | -0.673 | 1.704 | 2.415 | 1.726 | 2.415 | -0.673 | 1.113 |
| 122H | 1.192 | 0.187 | 2.403 | -0.299 | 2.351 | 3.008 | 1.202 | 3.008 | -0.299 | 1.435 |
| 123Y | 0.117 | 0.724 | 1.991 | -0.530 | 1.996 | 2.414 | 1.664 | 2.414 | -0.530 | 1.196 |
| 124E | 1.192 | 1.034 | 2.403 | -1.298 | 2.351 | 3.008 | 1.202 | 3.008 | -1.298 | 1.413 |
| 125K | 1.059 | 0.818 | 2.066 | -1.923 | 1.941 | 2.408 | 1.229 | 2.408 | -1.923 | 1.086 |
| 126L | 0.692 | -0.218 | 1.786 | -2.378 | 1.759 | 1.790 | 1.550 | 1.790 | -2.378 | 0.712 |
| 127E | 0.945 | 0.477 | 1.776 | -2.142 | 1.795 | 1.790 | 1.438 | 1.795 | -2.142 | 0.869 |
| 128G | -0.129 | -0.272 | 1.365 | -1.836 | 1.440 | 1.195 | 1.899 | 1.899 | -1.836 | 0.523 |
| 129V | -0.161 | -0.899 | 1.113 | -1.383 | 0.957 | 0.621 | 1.875 | 1.875 | -1.383 | 0.303 |
| 130P | -0.161 | -0.176 | 1.132 | -1.040 | 0.902 | 0.620 | 1.691 | 1.691 | -1.040 | 0.424 |
| 131L | -0.521 | 0.297 | 0.804 | -0.821 | 0.537 | 0.020 | 0.708 | 0.804 | -0.821 | 0.146 |
| 132T | -0.521 | 0.177 | 0.804 | -0.813 | 0.537 | 0.020 | 0.708 | 0.804 | -0.813 | 0.130 |
| 133F | 0.073 | 0.295 | 1.375 | -0.983 | 1.185 | 0.613 | 0.184 | 1.375 | -0.983 | 0.392 |
| 134A | -0.566 | 1.283 | 0.991 | -1.495 | 0.893 | 0.596 | 0.286 | 1.283 | -1.495 | 0.284 |
| 135G | 0.459 | 1.078 | 1.375 | -1.493 | 1.194 | 0.631 | -0.262 | 1.375 | -1.493 | 0.426 |
| 136K | 0.395 | 0.451 | 1.608 | -1.433 | 1.513 | 1.236 | -0.304 | 1.608 | -1.433 | 0.495 |
| 137I | 0.395 | -0.705 | 1.589 | -0.963 | 1.567 | 1.237 | -0.120 | 1.589 | -0.963 | 0.429 |
| 138N | 0.395 | -0.494 | 1.589 | -0.712 | 1.567 | 1.237 | -0.120 | 1.589 | -0.712 | 0.495 |
| 139R | -0.471 | -1.200 | 1.459 | -1.001 | 1.595 | 1.239 | 0.201 | 1.595 | -1.200 | 0.260 |
| 140L | -1.097 | -1.200 | 1.001 | -1.796 | 1.002 | 0.661 | 0.081 | 1.002 | -1.796 | -0.193 |
| 141A | -0.825 | -0.368 | 1.019 | -2.436 | 1.011 | 0.661 | 0.348 | 1.019 | -2.436 | -0.084 |
| 142I | -1.002 | 0.241 | 1.150 | -3.051 | 1.175 | 1.245 | 0.460 | 1.245 | -3.051 | 0.031 |
| 143M | -0.907 | 0.361 | 0.711 | -2.999 | 0.656 | 0.620 | 0.461 | 0.711 | -2.999 | -0.157 |
| 144V | 0.117 | 0.475 | 1.094 | -2.341 | 0.957 | 0.656 | -0.087 | 1.094 | -2.341 | 0.124 |
| 145R | -0.597 | 0.572 | 1.010 | -1.532 | 0.966 | 0.661 | 1.358 | 1.358 | -1.532 | 0.348 |
| 146G | 0.041 | -0.242 | 1.150 | -0.567 | 0.984 | 0.659 | 0.027 | 1.150 | -0.567 | 0.293 |
| 147N | 0.440 | -0.983 | 1.160 | -0.186 | 0.938 | 0.642 | -0.928 | 1.160 | -0.983 | 0.155 |
| 148L | 0.806 | -1.101 | 1.281 | -0.479 | 0.948 | 0.641 | -2.527 | 1.281 | -2.527 | -0.062 |
| 149A | 0.275 | -0.270 | 0.842 | -1.295 | 0.519 | 0.033 | -2.581 | 0.842 | -2.581 | -0.354 |
| 150A | 0.294 | -0.474 | 1.178 | -1.838 | 0.938 | 0.075 | -2.418 | 1.178 | -2.418 | -0.321 |
| 151A | 0.212 | -0.679 | 0.870 | -2.247 | 0.583 | 0.035 | -2.305 | 0.870 | -2.305 | -0.504 |
| 152M | 0.212 | -0.679 | 0.870 | -2.080 | 0.583 | 0.035 | -2.305 | 0.870 | -2.305 | -0.481 |
| 153Q | -0.503 | -0.769 | 0.786 | -1.969 | 0.592 | 0.040 | -0.860 | 0.786 | -1.969 | -0.383 |
| 154G | -0.503 | -0.901 | 0.786 | -1.956 | 0.592 | 0.040 | -0.860 | 0.786 | -1.956 | -0.400 |
| 155L | -1.217 | -1.733 | 0.702 | -2.137 | 0.601 | 0.046 | 0.585 | 0.702 | -2.137 | -0.450 |
| 156L | -0.819 | -1.733 | 0.954 | -2.091 | 0.829 | 0.047 | 0.860 | 0.954 | -2.091 | -0.279 |
| 157A | -1.780 | -1.528 | 0.543 | -2.037 | 0.465 | 0.010 | 1.132 | 1.132 | -2.037 | -0.456 |
| 158L | -2.722 | -0.901 | 0.468 | -1.782 | 0.519 | 0.016 | 1.566 | 1.566 | -2.722 | -0.405 |
| 159P | -2.007 | -1.103 | 0.552 | -1.675 | 0.510 | 0.010 | 0.121 | 0.552 | -2.007 | -0.513 |
| 160L | -1.065 | -0.923 | 0.627 | -1.741 | 0.455 | 0.005 | -0.313 | 0.627 | -1.741 | -0.422 |
| 161L | -1.318 | -1.043 | 0.879 | -1.895 | 0.692 | 0.024 | 1.029 | 1.029 | -1.895 | -0.233 |
| 162A | -0.104 | -0.749 | 1.234 | -1.596 | 1.002 | 0.508 | 0.585 | 1.234 | -1.596 | 0.126 |
| 163G | -0.743 | -0.749 | 0.851 | -1.308 | 0.711 | 0.491 | 0.687 | 0.851 | -1.308 | -0.009 |
| 164Y | -0.028 | -0.520 | 1.094 | -0.437 | 0.875 | 1.105 | 0.519 | 1.105 | -0.520 | 0.372 |
| 165D | 0.686 | 0.425 | 1.178 | 0.039 | 0.866 | 1.100 | -0.926 | 1.178 | -0.926 | 0.481 |
| 166I | 0.964 | 0.245 | 1.328 | 0.596 | 1.020 | 1.120 | 0.244 | 1.328 | 0.244 | 0.788 |
| 167H | 1.236 | 1.060 | 1.608 | 0.929 | 1.385 | 1.609 | 0.235 | 1.609 | 0.235 | 1.152 |
| 168A | 1.489 | 1.826 | 1.599 | 1.364 | 1.422 | 1.608 | 0.123 | 1.826 | 0.123 | 1.347 |
| 169S | 1.236 | 1.826 | 1.655 | 1.475 | 1.476 | 1.162 | 0.295 | 1.826 | 0.295 | 1.303 |
| 170D | 2.153 | 1.597 | 1.945 | 1.775 | 1.649 | 1.180 | 0.133 | 2.153 | 0.133 | 1.490 |
| 171P | 2.153 | 1.872 | 1.786 | 1.357 | 1.476 | 0.560 | -1.144 | 2.153 | -1.144 | 1.151 |
| 172Q | 2.381 | 1.189 | 1.776 | 0.969 | 1.431 | 0.560 | -0.134 | 2.381 | -0.134 | 1.167 |

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|---|---|---|---|---|---|---|---|---|---|---|
| 173S | 2.235 | 0.602 | 2.057 | 0.139 | 1.750 | 1.165 | -0.295 | 2.235 | -0.295 | 1.093 |
| 174A | 1.097 | 0.602 | 1.646 | -0.812 | 1.412 | 0.678 | 0.036 | 1.646 | -0.812 | 0.665 |
| 175G | 0.730 | 0.427 | 1.281 | -1.714 | 1.130 | 0.660 | 0.405 | 1.281 | -1.714 | 0.417 |
| 176R | 0.762 | 0.339 | 1.103 | -2.074 | 0.911 | 0.638 | 0.401 | 1.103 | -2.074 | 0.297 |
| 177I | -0.231 | -0.474 | 0.889 | -1.983 | 0.711 | 0.622 | 0.493 | 0.889 | -1.983 | 0.004 |
| 178V | 0.269 | -0.150 | 1.160 | -1.025 | 1.030 | 1.111 | 1.494 | 1.494 | -1.025 | 0.555 |
| 179S | 0.041 | 0.574 | 1.169 | -0.138 | 1.075 | 1.111 | 0.483 | 1.169 | -0.138 | 0.616 |
| 180F | -0.092 | 0.345 | 0.739 | 0.420 | 0.601 | 0.486 | -0.526 | 0.739 | -0.526 | 0.282 |
| 181D | 0.775 | 0.017 | 0.870 | 0.230 | 0.574 | 0.485 | -0.847 | 0.870 | -0.847 | 0.300 |
| 182A | 1.369 | 0.087 | 0.982 | -0.393 | 0.537 | 0.483 | -1.436 | 1.369 | -1.436 | 0.233 |
| 183A | 0.326 | -0.238 | 0.851 | -1.225 | 0.401 | 0.488 | -1.573 | 0.851 | -1.573 | -0.139 |
| 184G | 1.350 | 0.337 | 1.216 | -1.197 | 0.756 | 0.525 | -1.938 | 1.350 | -1.938 | 0.150 |
| 185G | 0.212 | 0.285 | 0.804 | -1.059 | 0.419 | 0.037 | -1.607 | 0.804 | -1.607 | -0.130 |
| 186W | 0.572 | 0.233 | 1.132 | -0.510 | 0.784 | 0.637 | -0.623 | 1.132 | -0.623 | 0.318 |
| 187N | 0.933 | 1.363 | 1.459 | -0.479 | 1.148 | 1.237 | 0.361 | 1.459 | -0.479 | 0.860 |
| 188I | 1.065 | 0.347 | 1.795 | -0.907 | 1.558 | 1.836 | 0.334 | 1.836 | -0.907 | 0.861 |
| 189E | 1.065 | 1.163 | 1.795 | -1.632 | 1.558 | 1.836 | 0.334 | 1.836 | -1.632 | 0.874 |
| 190E | 1.578 | 0.588 | 2.029 | -1.955 | 1.777 | 1.830 | 0.644 | 2.029 | -1.955 | 0.927 |
| 191E | 1.514 | -0.084 | 2.057 | -2.055 | 1.841 | 1.832 | 0.920 | 2.057 | -2.055 | 0.861 |
| 192G | 2.153 | -0.032 | 2.197 | -1.659 | 1.859 | 1.830 | -0.412 | 2.197 | -1.659 | 0.848 |
| 193Y | 1.426 | 0.197 | 1.748 | -1.406 | 1.485 | 1.232 | 0.203 | 1.748 | -1.406 | 0.698 |
| 194Q | 1.293 | 1.231 | 1.412 | -1.366 | 1.075 | 0.633 | 0.230 | 1.412 | -1.366 | 0.644 |
| 195A | 1.211 | 1.595 | 1.234 | -1.261 | 0.866 | 0.053 | 0.416 | 1.595 | -1.261 | 0.588 |
| 196V | 1.211 | 1.391 | 1.234 | -1.152 | 0.866 | 0.053 | 0.416 | 1.391 | -1.152 | 0.574 |
| 197G | 1.742 | 1.313 | 1.132 | -0.602 | 0.784 | 0.054 | 0.244 | 1.742 | -0.602 | 0.667 |
| 198S | 0.781 | 0.686 | 0.720 | -0.227 | 0.419 | 0.017 | 0.516 | 0.781 | -0.227 | 0.416 |
| 199G | 0.067 | 0.662 | 0.655 | 0.103 | 0.373 | 0.021 | 1.777 | 1.777 | 0.021 | 0.522 |
| 200S | 0.433 | 0.890 | 0.776 | -0.111 | 0.382 | 0.020 | 0.178 | 0.890 | -0.111 | 0.367 |
| 201L | 0.433 | 0.890 | 1.234 | -0.522 | 1.066 | 0.614 | 0.243 | 1.234 | -0.522 | 0.565 |
| 202F | 0.433 | 0.980 | 1.234 | -0.934 | 1.066 | 0.614 | 0.243 | 1.234 | -0.934 | 0.520 |
| 203A | 0.484 | 1.986 | 1.393 | -0.783 | 1.267 | 0.634 | 0.402 | 1.986 | -0.783 | 0.769 |
| 204K | -0.193 | 2.818 | 1.234 | -0.572 | 1.157 | 0.631 | 0.187 | 2.818 | -0.572 | 0.752 |
| 205S | 0.749 | 1.782 | 1.767 | -0.222 | 1.786 | 1.221 | -0.183 | 1.786 | -0.222 | 0.986 |
| 206S | 1.691 | 0.519 | 2.281 | -0.498 | 2.470 | 1.811 | -0.369 | 2.470 | -0.498 | 1.129 |
| 207M | 0.977 | 0.519 | 2.197 | -1.210 | 2.479 | 1.816 | 1.076 | 2.479 | -1.210 | 1.122 |
| 208K | 0.496 | 1.125 | 2.001 | -1.909 | 2.078 | 1.241 | 1.343 | 2.078 | -1.909 | 0.911 |
| 209K | 0.496 | 0.197 | 2.001 | -2.058 | 2.078 | 1.241 | 1.343 | 2.078 | -2.058 | 0.757 |
| 210L | 0.465 | -0.144 | 2.178 | -1.635 | 2.296 | 1.264 | 1.347 | 2.296 | -1.635 | 0.824 |
| 211Y | 0.496 | 0.600 | 2.066 | -0.850 | 2.242 | 1.248 | 1.991 | 2.242 | -0.850 | 1.113 |
| 212S | 0.465 | 1.633 | 1.814 | -0.308 | 1.759 | 0.673 | 1.966 | 1.966 | -0.308 | 1.143 |
| 213Q | 0.737 | 1.317 | 1.636 | 0.020 | 1.440 | 0.567 | 1.893 | 1.893 | 0.020 | 1.087 |
| 214V | 1.679 | 1.682 | 1.711 | 0.084 | 1.385 | 0.562 | 1.458 | 1.711 | 0.084 | 1.223 |
| 215T | 2.431 | 2.405 | 1.730 | 0.431 | 1.467 | 1.032 | 1.117 | 2.431 | 0.431 | 1.516 |
| 216D | 2.431 | 1.710 | 1.730 | 0.818 | 1.467 | 1.032 | 1.117 | 2.431 | 0.818 | 1.472 |
| 217G | 2.412 | 1.984 | 1.393 | 1.169 | 1.048 | 0.989 | 0.954 | 2.412 | 0.954 | 1.421 |
| 218D | 2.064 | 1.261 | 1.431 | 1.127 | 1.066 | 0.993 | 0.800 | 2.064 | 0.800 | 1.249 |
| 219S | 2.001 | 0.722 | 1.664 | 0.532 | 1.385 | 1.598 | 0.758 | 2.001 | 0.532 | 1.237 |
| 220G | 1.135 | -0.230 | 1.272 | -0.533 | 1.057 | 1.110 | 1.356 | 1.356 | -0.533 | 0.738 |
| 221L | 0.907 | -0.282 | 1.281 | -1.462 | 1.103 | 1.110 | 0.346 | 1.281 | -1.462 | 0.429 |
| 222R | 0.041 | -0.078 | 0.889 | -2.154 | 0.774 | 0.623 | 0.943 | 0.943 | -2.154 | 0.148 |
| 223V | 0.123 | -1.095 | 1.066 | -2.410 | 0.984 | 1.203 | 0.757 | 1.203 | -2.410 | 0.090 |
| 224A | -0.104 | -1.406 | 1.075 | -2.362 | 1.030 | 1.203 | -0.253 | 1.203 | -2.362 | -0.117 |
| 225V | -0.104 | -0.867 | 1.075 | -2.330 | 1.030 | 1.203 | -0.253 | 1.203 | -2.330 | -0.035 |
| 226E | -0.490 | -0.771 | 0.898 | -2.257 | 0.793 | 0.597 | 0.080 | 0.898 | -2.257 | -0.164 |
| 227A | 0.376 | -1.346 | 1.290 | -1.900 | 1.121 | 1.085 | -0.518 | 1.290 | -1.900 | 0.015 |
| 228L | 0.376 | -0.807 | 1.290 | -1.422 | 1.121 | 1.085 | -0.518 | 1.290 | -1.422 | 0.161 |
| 229Y | 0.743 | -0.064 | 1.412 | -0.860 | 1.130 | 1.083 | -2.117 | 1.412 | -2.117 | 0.190 |
| 230D | 0.882 | 0.882 | 1.356 | -0.356 | 1.084 | 0.972 | -2.099 | 1.356 | -2.099 | 0.389 |
| 231A | 1.382 | 1.199 | 1.627 | 0.060 | 1.403 | 1.461 | -1.098 | 1.627 | -1.098 | 0.862 |

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|---|---|---|---|---|---|---|---|---|---|---|
| 232A | 2.595 | 1.199 | 1.982 | 0.679 | 1.713 | 1.945 | -1.542 | 2.595 | -1.542 | 1.224 |
| 233D | 3.127 | 1.690 | 1.879 | 1.550 | 1.631 | 1.946 | -1.714 | 3.127 | -1.714 | 1.444 |
| 234D | 2.627 | 1.778 | 1.608 | 2.050 | 1.312 | 1.457 | -2.716 | 2.627 | -2.716 | 1.160 |
| 235D | 2.823 | 1.866 | 1.804 | 2.122 | 1.467 | 1.477 | -1.665 | 2.823 | -1.665 | 1.413 |
| 236S | 3.051 | 1.686 | 1.795 | 1.438 | 1.422 | 1.477 | -0.654 | 3.051 | -0.654 | 1.459 |
| 237A | 2.779 | 1.369 | 1.515 | 0.405 | 1.057 | 0.988 | -0.645 | 2.779 | -0.645 | 1.067 |
| 238T | 2.279 | 1.165 | 1.487 | -0.343 | 1.011 | 0.518 | -0.416 | 2.279 | -0.416 | 0.814 |
| 239G | 2.279 | 0.578 | 1.487 | -0.459 | 1.011 | 0.518 | -0.416 | 2.279 | -0.459 | 0.714 |
| 240G | 1.287 | 0.764 | 1.253 | -0.312 | 0.866 | 0.503 | -0.141 | 1.287 | -0.312 | 0.603 |
| 241P | 0.920 | 0.764 | 1.132 | 0.019 | 0.856 | 0.505 | 1.458 | 1.458 | 0.019 | 0.808 |
| 242D | 0.857 | 0.081 | 1.365 | -0.215 | 1.175 | 1.109 | 1.416 | 1.416 | -0.215 | 0.827 |
| 243L | 0.857 | -0.633 | 1.365 | -0.794 | 1.175 | 1.109 | 1.416 | 1.416 | -0.794 | 0.642 |
| 244V | -0.009 | -0.070 | 1.234 | -1.635 | 1.203 | 1.111 | 1.738 | 1.738 | -1.635 | 0.510 |
| 245R | -0.724 | 0.517 | 0.926 | -2.098 | 0.884 | 1.096 | 1.769 | 1.769 | -2.098 | 0.339 |
| 246G | -1.223 | -0.296 | 0.898 | -2.140 | 0.838 | 0.626 | 1.998 | 1.998 | -2.140 | 0.100 |
| 247I | -0.313 | -1.019 | 1.178 | -1.572 | 0.984 | 0.641 | 1.603 | 1.603 | -1.572 | 0.215 |
| 248F | 0.054 | -1.019 | 1.300 | -0.993 | 0.993 | 0.639 | 0.005 | 1.300 | -1.019 | 0.140 |
| 249P | -0.446 | -1.170 | 0.748 | -0.600 | 0.510 | 0.016 | 0.594 | 0.748 | -1.170 | -0.049 |
| 250T | -1.312 | -0.989 | 0.618 | -0.839 | 0.537 | 0.018 | 0.916 | 0.916 | -1.312 | -0.150 |
| 251A | -1.312 | -1.480 | 0.618 | -1.465 | 0.537 | 0.018 | 0.916 | 0.916 | -1.480 | -0.310 |
| 252V | -0.098 | -0.941 | 0.954 | -1.965 | 0.902 | 0.503 | 0.656 | 0.954 | -1.965 | 0.002 |
| 253I | -0.098 | -0.218 | 0.711 | -2.135 | 0.629 | 0.484 | -0.575 | 0.711 | -2.135 | -0.172 |
| 254I | 0.206 | 0.107 | 0.786 | -1.472 | 0.793 | 0.953 | -0.624 | 0.953 | -1.472 | 0.107 |
| 255D | 0.433 | 0.335 | 0.776 | -0.690 | 0.747 | 0.953 | 0.386 | 0.953 | -0.690 | 0.420 |
| 256A | 0.800 | 0.335 | 0.898 | -0.092 | 0.756 | 0.951 | -1.213 | 0.951 | -1.213 | 0.348 |
| 257D | 1.072 | 0.239 | 0.917 | -0.151 | 0.765 | 0.951 | -0.946 | 1.072 | -0.946 | 0.407 |
| 258G | 2.210 | 0.059 | 1.328 | -0.289 | 1.103 | 1.438 | -1.276 | 2.210 | -1.276 | 0.653 |
| 259A | 1.344 | 0.007 | 0.935 | -0.743 | 0.774 | 0.951 | -0.679 | 1.344 | -0.743 | 0.370 |
| 260V | 1.344 | 0.862 | 1.178 | -0.499 | 1.048 | 0.970 | 0.551 | 1.344 | -0.499 | 0.779 |
| 261D | 1.205 | 1.772 | 1.234 | -0.462 | 1.093 | 1.080 | 0.534 | 1.772 | -0.462 | 0.922 |
| 262V | 1.255 | 0.908 | 1.393 | -0.138 | 1.294 | 1.101 | 0.694 | 1.393 | -0.138 | 0.929 |
| 263P | 1.388 | 1.004 | 1.823 | -0.259 | 1.768 | 1.725 | 1.703 | 1.823 | -0.259 | 1.307 |
| 264E | 1.116 | 1.221 | 1.804 | -0.448 | 1.759 | 1.725 | 1.436 | 1.804 | -0.448 | 1.230 |
| 265S | 0.617 | 0.441 | 1.533 | -1.043 | 1.440 | 1.236 | 0.435 | 1.533 | -1.043 | 0.666 |
| 266R | 1.344 | -0.414 | 1.982 | -1.575 | 1.813 | 1.834 | -0.180 | 1.982 | -1.575 | 0.686 |
| 267I | 0.629 | -0.414 | 1.655 | -2.233 | 1.549 | 1.821 | 0.035 | 1.821 | -2.233 | 0.435 |
| 268A | 0.269 | -0.090 | 1.328 | -2.467 | 1.185 | 1.221 | -0.949 | 1.328 | -2.467 | 0.071 |
| 269E | 0.123 | -0.414 | 1.608 | -2.630 | 1.504 | 1.826 | -1.110 | 1.826 | -2.630 | 0.130 |
| 270L | -0.009 | -1.314 | 1.178 | -2.537 | 1.030 | 1.201 | -2.119 | 1.201 | -2.537 | -0.367 |
| 271A | -0.009 | -0.534 | 1.178 | -2.567 | 1.030 | 1.201 | -2.119 | 1.201 | -2.567 | -0.260 |
| 272R | -0.648 | 0.321 | 1.038 | -2.732 | 1.011 | 1.203 | -0.787 | 1.203 | -2.732 | -0.085 |
| 273A | -0.648 | 0.321 | 1.038 | -2.929 | 1.011 | 1.203 | -0.787 | 1.203 | -2.929 | -0.113 |
| 274I | 0.345 | 1.177 | 1.272 | -2.785 | 1.157 | 1.218 | -1.062 | 1.272 | -2.785 | 0.189 |
| 275I | 0.477 | 2.128 | 1.702 | -2.481 | 1.631 | 1.842 | -0.053 | 2.128 | -2.481 | 0.750 |
| 276E | 0.623 | 2.453 | 1.421 | -1.610 | 1.312 | 1.238 | 0.108 | 2.453 | -1.610 | 0.792 |
| 277S | 0.850 | 2.417 | 1.412 | -0.908 | 1.267 | 1.238 | 1.118 | 2.417 | -0.908 | 1.056 |
| 278R | 1.489 | 2.052 | 1.552 | -0.409 | 1.285 | 1.236 | -0.214 | 2.052 | -0.409 | 0.999 |
| 279S | 2.627 | 1.064 | 1.963 | -0.186 | 1.622 | 1.723 | -0.544 | 2.627 | -0.544 | 1.181 |
| 280G | 2.463 | 0.836 | 1.832 | -0.064 | 1.412 | 1.144 | -0.477 | 2.463 | -0.477 | 1.021 |
| 281A | 1.470 | 1.064 | 1.617 | 0.047 | 1.212 | 1.128 | -0.386 | 1.617 | -0.386 | 0.879 |
| 282D | 1.565 | 1.603 | 1.178 | 0.294 | 0.692 | 0.503 | -0.385 | 1.603 | -0.385 | 0.779 |
| 283T | 1.565 | 1.692 | 1.178 | 0.385 | 0.692 | 0.503 | -0.385 | 1.692 | -0.385 | 0.804 |
| 284F | 1.837 | 1.828 | 1.459 | 0.533 | 1.057 | 0.992 | -0.394 | 1.837 | -0.394 | 1.044 |
| 285G | 2.064 | 2.577 | 1.449 | 0.722 | 1.011 | 0.992 | 0.616 | 2.577 | 0.616 | 1.348 |
| 286S | 1.793 | 2.782 | 1.169 | 0.760 | 0.647 | 0.503 | 0.625 | 2.782 | 0.503 | 1.183 |
| 287D | 1.957 | 2.180 | 1.300 | 0.527 | 0.856 | 1.083 | 0.558 | 2.180 | 0.527 | 1.209 |
| 288G | 2.899 | 1.896 | 1.814 | -0.221 | 1.540 | 1.673 | 0.372 | 2.899 | -0.221 | 1.425 |
| 289G | 2.539 | 1.523 | 1.365 | -1.020 | 1.905 | 1.733 | -0.638 | 2.539 | -1.020 | 1.058 |
| 290E | 2.128 | 1.151 | 0.758 | -1.560 | 2.069 | 1.773 | -1.808 | 2.128 | -1.808 | 0.644 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **291K** | **1.495** | **0.830** | **0.029** | **-1.584** | **2.069** | **1.344** | **-2.809** | **2.069** | **-2.809** | **0.196** |

**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.**

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| Sequence | [1]VTWPLPDRLSINSLSGTPAVDLSSFTDFLRRQAPELLPASISGGAPLAGGDAQLPHGTTIVALKYPG GVVMAGDRRSTQGNMISGRDVRKVYITDDYTATGIAGTAAVAVEFARLYAVELEHYEKLEGVPLTFA GKINRLAIMVRGNLAAAMQGLLALPLLAGYDIHASDPQSAGRIVSFDAAGGWNIEEEGYQAVGSGSL FAKSSMKKLYSQVTDGDSGLRVAVEALYDAADDDSATGGPDLVRGIFPTAVIIDADGAVDVPESRIAE LARAIIESRSGADTFGSDGGEK[291] |
| Hydrophilicity | [1]VTWPLPDRLSINSLSGTPAVDLSSFTDFLRRQAPELLPASISGGAPLAGGDAQLPHGTTIVALKYPG GVVMAGDRRSTQGNMISGRDVRKVYITDDYTATGIAGTAAVAVEFARLYAVELEHYEKLEGVPLTFA GKINRLAIMVRGNLAAAMQGLLALPLLAGYDIHASDPQSAGRIVSFDAAGGWNIEEEGYQAVGSGSL FAKSSMKKLYSQVTDGDSGLRVAVEALYDAADDDSATGGPDLVRGIFPTAVIIDADGAVDVPESRIAE LARAIIESRSGADTFGSDGGEK[291] |
| Flexibility | [1]VTWPLPDRLSINSLSGTPAVDLSSFTDFLRRQAPELLPASISGGAPLAGGDAQLPHGTTIVALKYPG GVVMAGDRRSTQGNMISGRDVRKVYITDDYTATGIAGTAAVAVEFARLYAVELEHYEKLEGVPLTFA GKINRLAIMVRGNLAAAMQGLLALPLLAGYDIHASDPQSAGRIVSFDAAGGWNIEEEGYQAVGSGSL FAKSSMKKLYSQVTDGDSGLRVAVEALYDAADDDSATGGPDLVRGIFPTAVIIDADGAVDVPESRIAE LARAIIESRSGADTFGSDGGEK[291] |
| Accessibility | [1]VTWPLPDRLSINSLSGTPAVDLSSFTDFLRRQAPELLPASISGGAPLAGGDAQLPHGTTIVALKYPG GVVMAGDRRSTQGNMISGRDVRKVYITDDYTATGIAGTAAVAVEFARLYAVELEHYEKLEGVPLTFA GKINRLAIMVRGNLAAAMQGLLALPLLAGYDIHASDPQSAGRIVSFDAAGGWNIEEEGYQAVGSGSL FAKSSMKKLYSQVTDGDSGLRVAVEALYDAADDDSATGGPDLVRGIFPTAVIIDADGAVDVPESRIAE LARAIIESRSGADTFGSDGGEK[291] |
| Turns | [1]VTWPLPDRLSINSLSGTPAVDLSSFTDFLRRQAPELLPASISGGAPLAGGDAQLPHGTTIVALKYPG GVVMAGDRRSTQGNMISGRDVRKVYITDDYTATGIAGTAAVAVEFARLYAVELEHYEKLEGVPLTFA GKINRLAIMVRGNLAAAMQGLLALPLLAGYDIHASDPQSAGRIVSFDAAGGWNIEEEGYQAVGSGSL FAKSSMKKLYSQVTDGDSGLRVAVEALYDAADDDSATGGPDLVRGIFPTAVIIDADGAVDVPESRIAE LARAIIESRSGADTFGSDGGEK[291] |
| Exposed Surface | [1]VTWPLPDRLSINSLSGTPAVDLSSFTDFLRRQAPELLPASISGGAPLAGGDAQLPHGTTIVALKYPG GVVMAGDRRSTQGNMISGRDVRKVYITDDYTATGIAGTAAVAVEFARLYAVELEHYEKLEGVPLTFA GKINRLAIMVRGNLAAAMQGLLALPLLAGYDIHASDPQSAGRIVSFDAAGGWNIEEEGYQAVGSGSL FAKSSMKKLYSQVTDGDSGLRVAVEALYDAADDDSATGGPDLVRGIFPTAVIIDADGAVDVPESRIAE LARAIIESRSGADTFGSDGGEK[291] |

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| Polarity | [1]VTWPLPDRLSINSLSGTPAVDLSSFTDFLRRQAPELLPASISGGAPLAGGDAQLPHGTTIVALKYPG GVVMAGDRRSTQGNMISGRDVRKVYITDDYTATGIAGTAAVAVEFARLYAVELEHYEKLEGVPLTFA GKINRLAIMVRGNLAAAMQGLLALPLLAGYDIHASDPQSAGRIVSFDAAGGWNIEEEGYQAVGSGSL FAKSSMKKLYSQVTDGDSGLRVAVEALYDAADDDSATGGPDLVRGIFPTAVIIDADGAVDVPESRIAE LARAIIESRSGADTFGSDGGEK[291] |
| Antigenic Propensity | [1]VTWPLPDRLSINSLSGTPAVDLSSFTDFLRRQAPELLPASISGGAPLAGGDAQLPHGTTIVALKYPG GVVMAGDRRSTQGNMISGRDVRKVYITDDYTATGIAGTAAVAVEFARLYAVELEHYEKLEGVPLTFA GKINRLAIMVRGNLAAAMQGLLALPLLAGYDIHASDPQSAGRIVSFDAAGGWNIEEEGYQAVGSGSL FAKSSMKKLYSQVTDGDSGLRVAVEALYDAADDDSATGGPDLVRGIFPTAVIIDADGAVDVPESRIAE LARAIIESRSGADTFGSDGGEK[291] |

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