

| Gene | BLAST ^a | iVIREONS ^b | PVPred ^c | PVP-SVM ^d | Pred-BVP-Unb ^{e,*} | PVPred-SCM ^f | STEP ^{3 g} |
|---------|--------------------|-----------------------|---------------------|----------------------|-----------------------------|-------------------------|---------------------|
| MMNM_01 | - | 0.709 | 0.045 | 0.092 | 0.005 | 450.560 | 0.072 |
| MMNM_02 | - | -0.418 | 0.085 | 0.070 | 0.013 | 423.970 | 0.218 |
| MMNM_03 | - | -0.717 | 0.915 | 0.600 | 0.890 | 456.590 | 0.750 |
| MMNM_04 | - | 0.878 | 0.898 | 0.878 | 0.130 | 537.390 | 0.932 |
| MMNM_05 | - | -0.961 | 0.010 | 0.005 | 0.024 | 454.120 | 0.116 |
| MMNM_06 | - | -0.942 | 0.000 | 0.004 | 0.004 | 441.330 | 0.057 |
| MMNM_07 | - | -0.497 | 0.573 | 0.684 | 0.404 | 472.100 | 0.689 |
| MMNM_08 | - | 0.916 | 0.311 | 0.443 | 0.159 | 457.410 | 0.736 |
| MMNM_09 | - | 0.781 | 0.695 | 0.418 | 0.645 | 457.670 | 0.706 |
| MMNM_10 | - | 0.938 | 0.476 | 0.695 | 0.967 | 472.660 | 0.968 |
| MMNM_11 | - | 0.995 | 0.563 | 0.711 | 0.918 | 495.130 | 0.873 |
| MMNM_12 | - | 0.832 | 0.144 | 0.095 | 0.002 | 420.030 | 0.088 |
| MMNM_13 | - | -0.783 | 0.004 | 0.013 | 0.002 | 422.750 | 0.106 |
| MMNM_14 | - | -0.997 | 0.337 | 0.394 | 0.105 | 466.370 | 0.352 |
| MMNM_15 | - | 0.573 | 0.215 | 0.278 | 0.018 | 429.450 | 0.083 |
| MMNM_16 | - | -0.645 | 0.630 | 0.516 | 0.261 | 468.390 | 0.466 |
| MMNM_17 | - | -0.427 | 0.926 | 0.840 | 0.564 | 473.380 | 0.849 |
| MMNM_18 | - | 0.976 | 0.749 | 0.737 | 0.562 | 480.270 | 0.907 |
| MMNM_19 | √ | 0.988 | 0.345 | 0.475 | 0.968 | 473.730 | 0.868 |
| MMNM_20 | - | 0.958 | 0.921 | 0.740 | 0.250 | 485.060 | 0.894 |
| MMNM_21 | - | 0.948 | 0.446 | 0.331 | 0.988 | 464.490 | 0.931 |
| MMNM_22 | - | 0.986 | 0.297 | 0.145 | 0.772 | 438.870 | 0.679 |
| MMNM_23 | √ | 0.996 | 0.838 | 0.556 | 0.997 | 477.930 | 0.952 |
| MMNM_24 | √ | 0.975 | 0.432 | 0.461 | 0.961 | 496.040 | 0.925 |

| | | | | | | | |
|---------|---|--------|-------|-------|-------|---------|-------|
| MMNM_25 | - | -0.350 | 0.046 | 0.261 | 0.076 | 435.180 | 0.468 |
| MMNM_26 | - | 0.996 | 0.741 | 0.888 | 0.803 | 466.610 | 0.802 |
| MMNM_27 | - | 0.870 | 0.989 | 0.570 | 0.091 | 510.040 | 0.645 |
| MMNM_28 | - | -0.778 | 0.008 | 0.035 | 0.011 | 424.010 | 0.111 |
| MMNM_29 | - | -0.870 | 0.077 | 0.341 | 0.125 | 447.120 | 0.215 |
| MMNM_30 | - | 0.904 | 0.087 | 0.184 | 0.015 | 417.020 | 0.412 |
| MMNM_31 | - | -0.134 | 0.068 | 0.145 | 0.148 | 481.890 | 0.385 |
| MMNM_32 | - | -0.995 | 0.111 | 0.343 | 0.103 | 488.980 | 0.399 |
| MMNM_33 | - | -0.353 | 0.486 | 0.215 | 0.058 | 420.260 | 0.205 |
| MMNM_34 | - | -0.972 | 0.202 | 0.210 | 0.002 | 454.030 | 0.226 |
| MMNM_35 | - | 0.102 | 0.052 | 0.124 | 0.015 | 437.820 | 0.237 |
| MMNM_36 | - | -0.278 | 0.022 | 0.000 | 0.004 | 340.140 | 0.243 |
| MMNM_37 | - | -0.658 | 0.269 | 0.555 | 0.551 | 462.780 | 0.630 |
| MMNM_38 | - | -0.345 | 0.034 | 0.064 | 0.109 | 436.530 | 0.231 |
| MMNM_39 | - | -0.075 | 0.121 | 0.523 | 0.963 | 460.690 | 0.342 |
| MMNM_40 | - | 0.662 | 0.157 | 0.278 | 0.027 | 509.800 | 0.238 |
| MMNM_41 | - | -0.988 | 0.149 | 0.010 | 0.208 | 367.150 | 0.136 |
| MMNM_42 | - | -0.443 | 0.087 | 0.136 | 0.128 | 447.920 | 0.269 |
| MMNM_43 | - | 0.629 | 0.230 | 0.158 | 0.025 | 450.150 | 0.397 |
| MMNM_44 | - | -0.952 | 0.262 | 0.124 | 0.007 | 428.910 | 0.338 |
| MMNM_45 | - | 0.456 | 0.063 | 0.066 | 0.003 | 466.480 | 0.142 |
| MMNM_46 | - | -0.355 | 0.191 | 0.194 | 0.609 | 469.240 | 0.157 |
| MMNM_47 | - | -0.769 | 0.021 | 0.032 | 0.024 | 443.840 | 0.136 |
| MMNM_48 | - | -0.959 | 0.428 | 0.117 | 0.011 | 495.500 | 0.280 |
| MMNM_49 | - | -0.924 | 0.111 | 0.070 | 0.630 | 453.810 | 0.199 |
| MMNM_50 | - | 0.031 | 0.063 | 0.138 | 0.006 | 464.010 | 0.290 |
| MMNM_51 | - | -0.988 | 0.005 | 0.617 | 0.023 | 411.650 | 0.159 |

| | | | | | | | |
|---------|---|--------|-------|-------|-------|---------|-------|
| MMNM_52 | - | 0.523 | 0.007 | 0.019 | 0.004 | 423.960 | 0.101 |
| MMNM_53 | - | 0.794 | 0.076 | 0.263 | 0.056 | 439.390 | 0.305 |
| MMNM_54 | - | -0.966 | 0.039 | 0.152 | 0.023 | 428.100 | 0.092 |
| MMNM_55 | - | 0.874 | 0.165 | 0.459 | 0.284 | 455.270 | 0.929 |
| MMNM_56 | - | 0.533 | 0.104 | 0.021 | 0.010 | 432.160 | 0.156 |
| MMNM_57 | - | -0.991 | 0.083 | 0.043 | 0.015 | 400.700 | 0.190 |
| MMNM_58 | - | -0.189 | 0.561 | 0.362 | 0.219 | 454.010 | 0.823 |
| MMNM_59 | - | -0.055 | 0.020 | 0.441 | 0.026 | 443.610 | 0.604 |
| MMNM_60 | - | -0.165 | 0.086 | 0.038 | 0.024 | 417.150 | 0.197 |
| MMNM_61 | - | 0.770 | 0.244 | 0.207 | 0.013 | 468.320 | 0.265 |
| MMNM_62 | - | 0.996 | 0.963 | 0.032 | 0.777 | 501.030 | 0.525 |
| MMNM_63 | - | 0.919 | 0.392 | 0.279 | 0.142 | 453.180 | 0.600 |
| MMNM_64 | - | -0.611 | 0.448 | 0.018 | 0.001 | 454.960 | 0.208 |
| MMNM_65 | - | 0.609 | 0.382 | 0.579 | 0.120 | 457.060 | 0.529 |
| MMNM_66 | - | 0.199 | 0.917 | 0.935 | 0.856 | 502.110 | 0.948 |
| MMNM_67 | - | 0.883 | 0.684 | 0.466 | 0.924 | 474.930 | 0.980 |