

[illegible][illegible]

| Difference in Predicted Stability to pNbCOV008C (using LR) - (Score -0.945) | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | - | Y | W | V | T | S | R | Q | P | N | M | L | K | I | H | G | F | E | D | C | A | | |
| F | 0.23 | | 0.81 | 0.79 | 0.99 | 0.73 | | | 1.03 | 1.17 | 0.74 | 0.46 | 0.83 | 0.24 | 0.87 | 1.15 | 0.00 | | 0.78 | 0.87 | | | |
| T | | 0.37 | -0.27 | 0.00 | -0.12 | | | | -0.15 | -0.07 | -0.17 | | | -0.58 | | | -0.44 | | | -0.24 | | | |
| F | | | 0.49 | | 1.06 | | | | 0.37 | 0.55 | | 0.50 | 0.27 | | 0.10 | | 0.00 | | | | | | |
| K | | -0.85 | -1.09 | -0.98 | -0.16 | 0.06 | -0.18 | 0.15 | 1.27 | 0.38 | -0.25 | -0.74 | 0.00 | -1.15 | 0.01 | 0.45 | -1.12 | 0.21 | 0.80 | 0.05 | -0.17 | | |
| V | | -0.04 | -0.18 | 0.00 | 0.68 | 0.72 | 0.61 | 0.87 | 1.12 | 1.20 | 0.58 | -0.11 | 0.77 | -0.21 | 0.76 | 0.88 | -0.26 | 1.07 | 1.48 | 0.55 | 0.57 | | |
| N | | -1.01 | | | -0.42 | | | | 0.00 | -0.64 | | | -0.29 | -0.41 | -0.54 | | -0.85 | | -0.42 | -0.56 | | | |
| A | | 0.35 | | -0.45 | 0.27 | 0.18 | | 0.27 | 0.49 | | 0.03 | | 0.17 | | | 0.48 | 0.08 | 0.25 | 0.67 | 0.21 | 0.00 | | |
| L | | | -0.05 | -0.03 | | -0.12 | | | | 0.06 | 0.00 | | | | | | -0.15 | | | | | | |
| V | | | 0.00 | | | | | | | | 0.12 | | 0.09 | | | -0.01 | 0.09 | | 0.03 | | -0.14 | | |
| A | | | | -0.15 | -0.06 | -0.05 | | -0.13 | | | | 0.12 | | | | -0.09 | | | 0.11 | | 0.00 | | |
| R | | -0.03 | | -0.60 | -0.15 | -0.02 | 0.00 | -0.12 | -0.06 | | | | | | | -0.49 | -0.14 | -0.10 | -0.05 | -0.12 | -0.06 | -0.02 | 0.05 |
| I | | | | 0.03 | -0.03 | -0.02 | | | 0.08 | | | -0.15 | | 0.00 | | | -0.03 | | -0.05 | | -0.11 | | |
| T | | 0.12 | -0.07 | 0.04 | 0.00 | -0.02 | -0.01 | 0.28 | 0.34 | | | 0.06 | 0.33 | 0.04 | 0.06 | 0.15 | -0.12 | 0.41 | 0.62 | 0.14 | 0.09 | | |
| - | 0.00 | -0.88 | -1.19 | -1.02 | -0.33 | -0.20 | -0.52 | -0.27 | -0.38 | 0.00 | | -0.78 | -0.40 | -1.18 | -0.42 | -0.14 | -0.93 | -0.18 | 0.08 | -0.50 | -0.47 | | |
| I | | 0.53 | -0.13 | 0.29 | 0.66 | 0.79 | 0.63 | 0.85 | 1.15 | 0.99 | | 0.42 | 0.86 | 0.00 | 0.87 | 0.89 | 0.10 | 1.05 | 1.23 | 0.79 | 0.75 | | |
| V | | 1.00 | | 0.00 | 0.44 | 0.40 | 0.12 | 0.62 | 0.75 | | 0.52 | | -0.07 | 0.66 | 0.51 | 0.54 | 0.95 | 1.11 | 1.23 | 0.66 | 0.35 | | |
| G | | 0.27 | | -0.72 | -0.42 | -0.30 | 0.09 | -0.17 | 0.09 | | | | -0.37 | | | 0.00 | -0.08 | 0.18 | 0.20 | 0.06 | -0.42 | | |
| N | | 0.12 | | -0.36 | -0.16 | -0.09 | 0.28 | -0.13 | 0.00 | | | -0.02 | 0.09 | -0.57 | -0.08 | -0.10 | -0.00 | 0.09 | 0.22 | -0.06 | -0.16 | | |
| T | | -0.22 | | | 0.00 | -0.19 | -0.43 | -0.21 | -0.23 | 0.06 | | | 0.23 | -0.42 | | -0.42 | | | -0.16 | | -0.12 | | |
| Y | | 0.00 | | | 0.01 | -0.04 | 0.13 | -0.12 | 0.02 | | | 0.04 | 0.12 | -0.02 | 0.11 | | -0.21 | | -0.04 | -0.02 | | | |
| N | 0.43 | 0.34 | 0.49 | 0.47 | 0.46 | 0.70 | 0.38 | 0.40 | 0.60 | 0.00 | 0.43 | 0.30 | 0.48 | 0.29 | 0.42 | 0.44 | 0.49 | 0.30 | 0.59 | 0.43 | 0.63 | | |
| T | 0.02 | -0.08 | -0.11 | 0.03 | 0.00 | 0.56 | -0.46 | -0.08 | 0.33 | -0.18 | 0.02 | 0.04 | -0.42 | -0.06 | -0.08 | 0.28 | 0.09 | -0.21 | 0.18 | -0.12 | 0.53 | | |
| Q | -0.36 | -0.83 | -0.51 | -0.90 | -0.54 | -0.26 | 0.10 | 0.00 | -0.56 | -0.17 | -0.37 | -0.80 | 0.26 | -0.67 | -0.19 | 0.10 | -0.49 | -0.62 | -0.54 | -0.04 | -0.29 | | |
| E | 0.03 | -0.35 | -0.64 | -0.15 | 0.17 | 0.30 | 0.26 | 0.18 | 0.37 | 0.21 | 0.11 | -0.23 | 0.30 | -0.36 | 0.12 | 0.29 | -0.46 | 0.00 | 0.15 | 0.12 | 0.16 | | |
| A | 0.22 | -0.43 | -0.73 | -0.38 | -0.03 | 0.16 | 0.12 | 0.05 | 0.25 | 0.20 | -0.04 | -0.42 | 0.19 | -0.52 | 0.05 | 0.31 | -0.53 | 0.01 | 0.22 | 0.03 | 0.00 | | |
| Y | 0.54 | 0.00 | -0.30 | -0.01 | 0.44 | 0.65 | 0.53 | 0.63 | 0.91 | 0.75 | 0.47 | -0.04 | 0.63 | -0.18 | 0.58 | 0.78 | -0.14 | 0.53 | 0.84 | 0.37 | 0.44 | | |
| - | 0.00 | -0.57 | -0.83 | -0.46 | 0.01 | 0.03 | 0.02 | 0.04 | 0.34 | 0.26 | -0.11 | -0.53 | 0.10 | -0.64 | -0.02 | 0.26 | -0.69 | 0.05 | 0.23 | -0.03 | -0.02 | | |
| - | 0.00 | -0.37 | -0.60 | -0.45 | 0.04 | 0.08 | 0.02 | 0.05 | 0.52 | 0.26 | -0.05 | -0.44 | 0.14 | -0.54 | 0.06 | 0.23 | -0.53 | 0.08 | 0.41 | -0.06 | -0.05 | | |
| - | 0.00 | -0.24 | -0.52 | -0.27 | 0.16 | 0.23 | 0.05 | 0.22 | 0.43 | 0.34 | 0.02 | -0.39 | 0.19 | -0.44 | 0.18 | 0.29 | -0.55 | 0.22 | 0.41 | 0.02 | 0.15 | | |
| - | 0.00 | -0.32 | -0.61 | -0.34 | 0.07 | 0.08 | -0.15 | 0.05 | 0.31 | 0.10 | -0.07 | -0.41 | 0.03 | -0.41 | 0.01 | 0.22 | -0.38 | 0.04 | 0.28 | -0.05 | -0.05 | | |
| - | 0.00 | -0.21 | -0.17 | -0.21 | 0.05 | 0.04 | 0.02 | 0.05 | 0.20 | 0.07 | 0.01 | -0.19 | 0.03 | -0.03 | -0.00 | 0.22 | -0.15 | 0.02 | 0.22 | -0.02 | -0.00 | | |
| - | 0.00 | 0.03 | 0.02 | 0.03 | 0.02 | -0.01 | -0.00 | 0.02 | 0.01 | 0.00 | 0.02 | -0.03 | 0.02 | 0.01 | 0.02 | 0.03 | 0.02 | 0.02 | 0.01 | 0.02 | 0.00 | | |
| - | 0.00 | -0.01 | -0.01 | -0.02 | -0.01 | -0.04 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.03 | -0.01 | -0.01 | -0.01 | -0.03 | -0.03 | -0.03 | -0.04 | -0.01 | -0.04 | | |
| - | 0.00 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | | |
| - | 0.00 | -0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | -0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | | |
| - | 0.00 | -0.09 | -0.04 | -0.06 | -0.04 | -0.04 | -0.06 | -0.04 | -0.04 | -0.04 | -0.04 | -0.06 | -0.04 | -0.06 | -0.04 | -0.03 | -0.04 | -0.04 | -0.07 | -0.04 | -0.06 | | |
| - | 0.00 | -0.16 | -0.10 | -0.14 | -0.04 | -0.10 | -0.08 | -0.12 | -0.10 | -0.08 | -0.08 | -0.05 | -0.08 | -0.11 | -0.10 | -0.08 | -0.08 | -0.05 | -0.10 | -0.08 | -0.09 | | |
| - | 0.00 | -0.32 | -0.45 | -0.31 | -0.13 | 0.00 | -0.28 | -0.12 | 0.18 | -0.12 | -0.14 | -0.39 | -0.07 | -0.44 | 0.06 | 0.10 | -0.56 | -0.08 | 0.26 | -0.20 | -0.13 | | |
| - | 0.00 | -0.33 | -0.48 | -0.36 | -0.04 | 0.09 | -0.05 | 0.06 | 0.31 | 0.19 | -0.12 | -0.41 | -0.07 | -0.51 | 0.05 | 0.12 | -0.51 | 0.05 | 0.17 | -0.06 | -0.11 | | |
| - | 0.00 | -0.34 | -0.55 | -0.42 | -0.02 | 0.09 | -0.07 | 0.05 | 0.32 | 0.14 | -0.06 | -0.43 | -0.02 | -0.53 | 0.11 | 0.21 | -0.54 | 0.01 | 0.18 | -0.05 | -0.04 | | |
| - | 0.00 | -0.36 | -0.57 | -0.39 | 0.05 | 0.09 | -0.03 | 0.10 | 0.33 | 0.11 | -0.07 | -0.41 | 0.01 | -0.53 | 0.08 | 0.25 | -0.52 | 0.04 | 0.15 | 0.09 | -0.04 | | |
| F | 0.43 | 0.16 | -0.20 | 0.09 | 0.48 | 0.64 | 0.61 | 0.74 | 0.92 | 0.79 | 0.57 | 0.06 | 0.66 | -0.04 | 0.58 | 0.85 | 0.00 | 0.51 | 0.71 | 0.41 | 0.46 | | |
| Y | 0.31 | 0.00 | -0.23 | -0.03 | 0.38 | 0.48 | 0.51 | 0.47 | 0.65 | 0.53 | 0.37 | 0.01 | 0.52 | -0.21 | 0.45 | 0.67 | -0.11 | 0.26 | 0.36 | 0.35 | 0.33 | | |
| P | -0.57 | -0.48 | -0.67 | -0.65 | -0.25 | -0.10 | 0.05 | -0.06 | 0.00 | -0.09 | -0.31 | -0.61 | 0.01 | -0.82 | -0.04 | 0.08 | -0.69 | -0.45 | -0.33 | -0.07 | -0.24 | | |
| K | -0.44 | -0.58 | -0.88 | -0.50 | -0.45 | -0.32 | 0.01 | -0.32 | -0.17 | -0.26 | -0.42 | -0.70 | 0.00 | -0.82 | -0.30 | -0.19 | -0.75 | -0.80 | -0.76 | -0.20 | -0.42 | | |
| Y | 0.02 | 0.00 | -0.19 | 0.10 | 0.08 | 0.01 | 0.43 | 0.14 | 0.19 | 0.05 | 0.16 | -0.15 | 0.25 | -0.05 | 0.16 | 0.14 | 0.03 | -0.30 | -0.53 | 0.06 | -0.04 | | |
| G | -0.02 | -0.22 | 0.00 | -0.16 | 0.02 | 0.12 | 0.13 | 0.02 | 0.08 | 0.26 | 0.01 | -0.13 | 0.20 | 0.01 | 0.24 | 0.00 | -0.30 | -0.19 | -0.29 | 0.05 | -0.06 | | |
| Y | -0.18 | 0.00 | -0.17 | -0.14 | -0.19 | -0.19 | -0.18 | -0.15 | -0.21 | 0.03 | -0.16 | -0.17 | -0.15 | -0.20 | -0.03 | -0.27 | -0.21 | -0.23 | -0.60 | -0.13 | -0.19 | | |