Normalized Epitope Residue Frequencies (Z-scores) for PD1 1.4 1.3 2.1 -1.4 1.1 0.7 1.6 1.1 1.5 0.4 1.6 1.1 1.3 1.3 1.2 1.4 ALA -2.0 -1.0 ARG --0.6 0.1 -0.2 0.2 -1.2 -0.1 -0.5 -0.9 -0.2 -0.1 -0.1 0.0 -0.1 0.3 -0.4 -0.1 1.4 -1.0 -0.3 ASN --0.8 -0.4 -0.9 -1.1 -1.1 1.1 0.5 -0.2 -0.1 -0.1 -1.0 1.3 -0.2 -0.6 -0.1 0.6 0.4 0.2 -0.1 ASP -0.4 0.3 1.1 1.1 -0.2 0.2 0.6 1.1 -0.9 -0.2 -0.1 -0.1 -1.0 -1.3 -1.4 0.1 -1.0 - 3 GLN -0.4 0.3 0.1 0.2 2.5 -0.9 0.7 -1.1 -0.1 0.2 2.5 -0.1 1.7 -0.1 0.2 0.0 -0.1 0.6 GLU -1.4 0.3 -0.4 -0.1 0.1 0.7 0.2 -0.3 -0.1 -0.5 1.8 0.7 1.1 0.2 1.3 -0.1 0.5 0.0 GLY --0.6 -0.8 -0.4 -0.1 -0.9 -1.1 -1.1 -0.3 -1.3 -0.5 -0.9 -1.1 -1.1 -1.3 -1.0 -1.0 -1.3 -1.4 -1.2 ILE -0.4 -0.8 0.9 1.1 -0.9 0.7 1.6 0.6 1.1 0.5 0.4 0.7 1.1 0.2 1.3 1.3 1.2 0.9 - 2 -0.6 1.1 0.5 0.4 -0.2 LEU -0.3 -0.4 -0.1 -0.2 0.2 0.6 -0.1 -0.1 -0.1 0.2 0.2 0.0 -0.1 0.1 LYS -0.3 0.9 -0.1 0.1 0.7 0.2 -0.3 -0.1 0.5 0.4 0.7 1.1 1.4 1.3 1.0 0.4 2.5 2.6 -1.6 -0.8 -1.6 -1.4 -0.9 -1.1 -1.1 -1.2 -1.3 -1.5 -0.9 -1.1 -1.1 -1.3 -1.0 -1.3 -1.4 0.2 -0.1 MET -NAG --1.6 -0.5 -1.6 -0.8 -1.4 -0.9 -1.1 -1.1 -1.2 -1.3 -0.9 -1.1 -1.1 -1.3 -1.0 -1.0 -1.3 -1.4 -1.5 PHE -0.4 -0.8 1.1 -0.9 -0.2 0.2 -1.2 -0.1 -0.5 0.4 -0.2 -1.1 1.1 -1.0 0.2 -1.3 -0.4 -1.4 PRO -1.4 1.1 2.1 1.7 1.6 -1.3 -0.5 1.8 0.7 0.9 1.1 2.7 1.3 0.0 1.2 1.4 2.3 SER -1.4 2.3 1.7 1.6 1.6 0.5 2.0 1.1 1.3 2.1 1.8 2.5 0.0 2.4 2.4 0.2 -0.1 1.9 THR -0.4 -0.8 -0.4 -0.1 0.1 -0.2 -1.1 -0.3 -0.1 -0.9 -1.1 -0.1 -1.3 0.2 -1.0 -0.1 -0.5 -1.5 TRP --1.6 -0.8 -1.6 -1.4 -0.9 -1.1 -1.1 -1.2 -1.3 -0.9 -1.1 -1.1 -1.3 0.2 -1.0 0.0 -0.1 -1.3 TYR --0.6 -0.8 -0.4 -0.1 -0.9 -1.1 -1.1 -0.3 -0.1 -0.5 -0.9 -1.1 -1.1 -1.3 -1.0 -1.0 0.0 -0.1 -0.9 -0.6 VAL --0.8 -0.4 -0.1 -0.9 -0.2 0.2 -0.3 -0.1 -0.5 0.4 -0.2 -0.1 -0.1 -1.0 0.2 0.0 -0.1 -0.4 6404 7CBW