Mean Residue Frequencies Across Checkpoints 10 CYS ASP ASN ARG ALA 2.6 3.4 0.75 2.5 2.1 3.2 1.2 1 2 2 3.4 1.6 2 1 1 3 3.3 1 3.5 4.1 3 3 - 8 0.083 2 GLU GLN 1.7 0.88 1.2 4 1 1.6 3 2.8 1 2 2 GLY 3.6 3.6 4.1 6.5 2 - 6 HIS -0.5 1.4 1.5 3 Amino Acid 2.6 2 1.6 3 1 3 2.4 1.8 3.2 1.5 4 ΓλS 1.6 2.1 1.6 2 3 4 - 4 PRO PHE MET 0.39 1.9 1.8 1 2.3 1.6 0.92 4 1.5 2 2.4 1.1 3.2 3 2 3 TRP THR SER 6.3 4.7 4.5 - 2 2.7 2 2.8 3 1 4 1.1 1.8 2 2 1 $\overline{\mathsf{T}}$ 6.8 8.1 5.9 4 4 - \\ 2.4 1.3 1.8 1 1 - 0 PD1 LAG3 TIM3 PDL1 CTLA4 KIR Checkpoint