

Table S2. Statistical differences in residue usage at individual positions between B*40:02-bound 9-mers in the IR>1.5 subsets from the WT/KO1 and WT/KO3 comparisons^a

	P1		P2		P3		P4		P5		P6		P7		P8		P9	
Residue	KO1	KO3	KO1	KO3	KO1	KO3	KO1	KO3	KO1	KO3	KO1	KO3	KO1	KO3	KO1	KO3	KO1	KO3
H	3.3E-09	7.8E-04			1.4E-03	3.6E-02												
R	1.0E-26	2.0E-32											2.5E-03	2.8E-02				
K	1.2E-51	6.5E-54			1.6E-06	3.0E-08					2.4E-03	2.9E-02						
I	1.8E-22	3.5E-25			3.7E-09	2.8E-07			1.3E-03	3.0E-04			1.5E-04	2.5E-06				
L	1.4E-31	9.5E-32					1.6E-04	9.8E-07	1.7E-08	1.1E-11								
M	1.3E-02	0.0022																
V	5.6E-22	1.1E-21			7.9E-09	1.7E-08												
C																		
A	2.4E-49	3.2E-39			6.8E-04	2.3E-02												
W																		
F	1.1E-26	3.0E-28							3.2E-05	6.3E-05								
Y	2.4E-30	2.3E-30																
N	1.3E-08	6.7E-08																
Q	2.7E-05	1.3E-08																
T	6.4E-10	2.8E-09							3.5E-02	7.4E-03							7.3E-03	2.1E-04
S	3.7E-08	6.4E-08							1.0E-02	9.0E-05								
G	4.1E-27	1.5E-25			3.2E-02	2.0E-02												
P							6.7E-06	1.7E-05	8.1E-06	5.6E-05								
D			1.2E-02	3.0E-03	4.9E-20	3.9E-14												
E	1.3E-10	1.8E-07	4.4E-04	2.4E-04	3.6E-10	1.0E-05									7.4E-16	3.9E-18		

^ap-values shaded in green or blue correspond to residues increased in the WT or in the indicated KO line, respectively. Only those values showing statistical significance in both the WT/KO1 and WT/KO3 comparisons are shown.