

Supplemental Table 1. Human HLA binding prediction sites

Peptide No	GALNS region	Sequence	MHC molecule (HLA)
A2	44-63	GD LG VY GE PS RE TP NLDRMA	A*30:02, A*02:01, B*35:01, B*40:01
B3	101-120	NA HAR NA YTPQEIVGGIPDS	A*30:02,
C4	163-182	PN CH FG PYDNKARNIPVYR	B*35:01,
D9	206-225	TQ IY L QE AL DF IK RQ ARHHP	A*23:01, A*24:02, A*02:03, A*02:01, A*31:01,
E8	226-245	FF LY WA VD ATH AP V YASKPF	B*35:01, B:53:01, A*02:01, A*68:02
F5	241-260	ASKP FL GT SQ R GR YGD AV RE	A*30:02,
G6	291-310	AALISAPEQ GS NG PFL CG K	A*11:01, A*03:01,
H7	347-366	TT SL AL AG L TPPSDRAID GL	A*68:02,
I10	473-492	QQHQEALVPA QP QL NVC N WA	B*53:01
J1	503-522	KL GG KL TP PE SIP KK CL W SH	A*11:01, A*03:01, B*57:01, B*58:01

Percentile rank: 1% , IC50: 50 nM, <200 nM