

## Table S1

Table S1. HLA-DR and -DQ binding predictions for Rv2034 p81-100 (LRTDLDRFWTRALTGYAQLI)

HLA-DR	Allele molecule	SYFPEITHI <sup>a</sup>	NetMHCIIpan 2.1	NetMHCII 2.2	IEDB	IEDB
Sequence	HLA-DRB1	Score	Affinity nM	Affinity nM	arbpython (ARB) Affinity nM	SMM Affinity nM
DRFWTRALTGYAQLI	0101	25	9.71 (SB) WTRALTGYA	18.2 (SB) TRALTGYAQ	21.7 (SB) WTRALTGYA	148.0 (WB) TRALTGYAQ
RTDLDRFWTRALTGY	0101	23	308.33 (WB) LDRFWTRAL	97.8 (WB) LDRFWTRAL	422.5 (WB) FWTRALTGY	465.0 (WB) LDRFWTRAL
RTDLDRFWTRALTGY	0301 (17)	19	1562.32 TDLDRFWTR	523.4 TDLDRFWTR	397.1 (WB) TDLDRFWTR	5181.0 TDLDRFWTR
LRTDLDRFWTRALTG	0301 (17)	2	893.68 TDLDRFWTR	208.0 (WB) TDLDRFWTR	189.8 (WB) LRTDLDRFW	1164.0 TDLDRFWTR
RTDLDRFWTRALTGY	0401	26	1230.41 LDRFWTRAL	510.2 RFWTRALTG	1045.4 LDRFWTRAL	824.0 LDRFWTRAL
DRFWTRALTGYAQLI	0401	28	75.81 (WB) WTRALTGYA	216.0 (WB) WTRALTGYA	1500.4 WTRALTGYA	1294.0 TRALTGYAQ
DLDRFWTRALTGYAQ	0401	0	254.70 (WB) WTRALTGYA	208.7 (WB) FWTRALTGY	1045.4 LDRFWTRAL	1022.0 LDRFWTRAL
RTDLDRFWTRALTGY	0701	24	236.64 (WB) LDRFWTRAL	181.2 (WB) RFWTRALTG	129.0 (WB) LDRFWTRAL	490.0 (WB) LDRFWTRAL
DRFWTRALTGYAQLI	0701	28	56.19 (WB) WTRALTGYA	221.4 (WB) RFWTRALTG	1364.7 RFWTRALTG	1052.0 WTRALTGYA
LRTDLDRFWTRALTG	0701	4	396.16 (WB) LDRFWTRAL	169.1 (WB) RFWTRALTG	129.0 (WB) LDRFWTRAL	503.0 LDRFWTRAL
DRFWTRALTGYAQLI	0801	ND	45.80 (SB) WTRALTGYA	ND	ND	ND
DRFWTRALTGYAQLI	0901	ND	19.99 (SB) WTRALTGYA	21.2 (SB) WTRALTGYA	1575.8 WTRALTGYA	176.0 (WB) WTRALTGYA
DRFWTRALTGYAQLI	1001	ND	36.40 (SB) WTRALTGYA	ND	ND	ND
DRFWTRALTGYAQLI	1101	18	47.00 (SB) WTRALTGYA	73.9 (WB) WTRALTGYA	506.2 WTRALTGYA	793.0 WTRALTGYA
DLDRFWTRALTGYAQ	1101	7	118.48 (WB) WTRALTGYA	44.3 (SB) DRFWTRALT	506.2 WTRALTGYA	542.0 LDRFWTRAL
TDLDRFWTRALTGYA	1101	9	176.31 (WB) WTRALTGYA	47.9 (SB) DRFWTRALT	506.2 WTRALTGYA	264.0 (WB) LDRFWTRAL
DRFWTRALTGYAQLI	1201	ND	30.49 (SB) WTRALTGYA	ND	24.7 (SB) DRFWTRALT	584.0 FWTRALTGY
TDLDRFWTRALTGYA	1201	ND	54.33 (WB) LDRFWTRAL	ND	24.7 (SB) DRFWTRALT	598.0 FWTRALTGY
RTDLDRFWTRALTGY	1301	ND	896.73 LDRFWTRAL	ND	ND	ND
LDRFWTRALTGYAQL	1401	ND	518.20 WTRALTGYA	ND	ND	ND
RTDLDRFWTRALTGY	1501	28	160.58 (WB) LDRFWTRAL	81.6 (WB) LDRFWTRAL	260.8 (WB) LDRFWTRAL	292.0 (WB) LDRFWTRAL
DRFWTRALTGYAQLI	1501	8	144.92 (WB) WTRALTGYA	292.7 (WB) WTRALTGYA	1164.6 ALTGYAQLI	1208.0 WTRALTGYA
DRFWTRALTGYAQLI	1601	ND	88.90 (WB) WTRALTGYA	ND	ND	ND

  

HLA-DQ	Allele molecule	SYFPEITHI <sup>a</sup>	NetMHCIIpan 2.1	NetMHCII 2.2	IEDB	IEDB
Sequence	HLA-DQA1-DQB1	Score	Affinity nM	Affinity nM	arbpython (ARB) Affinity nM	SMM Affinity nM
RTDLDRFWTRALTGY	0101-0501 (DQ1(5))	ND	ND	3350.1 LDRFWTRAL	17544.9 LDRFWTRAL	2122.0 LDRFWTRAL
LDRFWTRALTGYAQL	0101-0501 (DQ1(5))	ND	ND	3624.5 LDRFWTRAL	6495.7 RALTGYAQL	1964.0 LDRFWTRAL
LDRFWTRALTGYAQL	0102-0602 (DQ1(6))	ND	ND	110.3 (WB) TRALTGYAQ	416.4 (WB) TRALTGYAQ	863.0 TRALTGYAQ
DRFWTRALTGYAQLI	0301-0302 (DQ3(8))	ND	ND	741.7 TRALTGYAQ	1508.9 RALTGYAQL	2599.0 TRALTGYAQ
DRFWTRALTGYAQLI	0401-0402 (DQ4)	ND	ND	2289.2 ALTGYAQLI	8839.3 TRALTGYAQ	5501.0 TRALTGYAQ
DRFWTRALTGYAQLI	0501-0201 (DQ2)	ND	ND	2258.9 ALTGYAQLI	3126.6 TRALTGYAQ	4043.0 RALTGYAQL
DRFWTRALTGYAQLI	0501-0301 (DQ3(7))	ND	ND	39.8 (SB) ALTGYAQLI	268.7 (WB) RALTGYAQL	150.0 (WB) TRALTGYAQ

<sup>a</sup> SYFPEITHI scores  $\geq 25$  are considered positive

Affinity nM: Strong binder (SB) = between 1 and 50 nM  
Weak binder (WB) = between 50 and 500 nM

Core amino acids sequences are indicated along with Affinity nM values