

Supplemental Table 3: Alignments of HLA A*33:01 with HLA- A *33:03.

AA Pos.	-21	-11	-1	10	20	30	40	50	60	70
A*33:03:02	****	*****	*****	*SHSMRYFTT	SVSRPGRGEP	RPIAVGYVDD	TQFVRFSDA	ASQRMEPRAP	WIEQEGPEYW	DRNTRNVKAH
A*33:01:01:01	MAVM	APRTLLLLL	GALALTQ	TWA	G-----	-----	-----	-----	-----	-----
A*33:01:01:02	MAVM	APRTLLLLL	GALALTQ	TWA	G-----	-----	-----	-----	-----	-----
AA Pos.	80	90	100	110	120	130	140	150	160	170
A*33:03:02	SQIDRVDLGT	LRGYYNQSEA	GSHTIQMMYG	CDVGS DGRFL	RGYQQDAYDG	KDYIALNEDL	RSWTAADMAA	QITQRKWEAA	RVAEQLRAYL	EGTCVEWLR
A*33:01:01:01	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
A*33:01:01:02	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
AA Pos.	180	190	200	210	220	230	240	250	260	270
A*33:03:02	YLENGKETLQ	RT*****	*****	*****	*****	*****	*****	*****	*****	*****
A*33:01:01:01	H-----	--DPPRTHMT	HHAVSDHEAT	LRCWALSFP	AEITLTWQRD	GEDQIQDTEL	VETRPAGDGT	FQKWASVVVP	SGQEQRYTCH	VQHEGLPKPL
A*33:01:01:02	H-----	--DPPRTHMT	HHAVSDHEAT	LRCWALSFP	AEITLTWQRD	GEDQIQDTEL	VETRPAGDGT	FQKWASVVVP	SGQEQRYTCH	VQHEGLPKPL
AA Pos.	280	290	300	310	320	330	340			
A*33:03:02	*****	*****	*****	*****	*****	*****	*****	*		
A*33:01:01:01	TLRWEPSQP	TPIVGIAG	LVLFGAVFAG	AVVAAVRWR	KSSDRKGGSY	SQAASSDAQ	GSDMSLTACK	V		
A*33:01:01:02	TLRWEPSQP	TPIVGIAG	LVLFGAVFAG	AVVAAVRWR	KSSDRKGGSY	SQAASSDAQ	GSDMSLTACK	V		