

vCCI Family Alignment

		1	10	20	30	40	50		
VARV_BR266_206	M	KQ	Q	I	V	L	A	M	G
VARV_CNG70_206	M	C	L	A	A	A	A	M	P
VARV_GAR_G3R	M	C	L	A	A	A	A	M	P
VARV_GU69_206	M	C	L	A	A	A	A	M	P
VARV_IND64_206	M	C	L	A	A	A	A	M	P
VARV_SLN68_206	M	C	L	A	A	A	A	M	P
MPXV-SL_001	M	C	L	V	A	A	A	M	P
MPXV-SL_177	M	C	L	V	A	A	A	M	P
MPXV_296_J1L	M	C	L	V	A	A	A	M	P
MPXV_296_J3R	M	C	L	V	A	A	A	M	P
CMV_N96_1	M	C	L	V	A	A	A	M	P
CMV_N96_211	M	C	L	V	A	A	A	M	P
HSPV002	M	C	L	V	A	A	A	M	P
HSPV206	M	C	L	V	A	A	A	M	P
CPXV_GRI_D1L	M	C	L	V	A	A	A	M	P
CPXV_GRI_15R	M	C	L	V	A	A	A	M	P
CPXV_BRI_003	M	C	L	V	A	A	A	M	P
CPXV_BRI_227	M	C	L	V	A	A	A	M	P
CPXV_GER91_001	M	C	L	V	A	A	A	M	P
CPXV_GER91_217	M	C	L	V	A	A	A	M	P
ECTV_MOS_001	M	C	L	V	A	A	A	M	P
ECTV_MOS_K2R	M	C	L	V	A	A	A	M	P
VACV_Lister_vCCI	M	C	L	V	A	A	A	M	P
MYXV_LAU_m001L	M	C	L	V	A	A	A	M	P
MYXV_LAU_M-T1	M	C	L	V	A	A	A	M	P
RPXV_Utrecht_35kDa	M	C	L	V	A	A	A	M	P
		60	70	80	90	100			
VARV_BR266_206	S	V	T	E	I	T	E	S	D
VARV_CNG70_206	S	V	T	E	I	T	E	S	D
VARV_GAR_G3R	S	V	T	E	I	T	E	S	D
VARV_GU69_206	S	V	T	E	I	T	E	S	D
VARV_IND64_206	S	V	T	E	I	T	E	S	D
VARV_SLN68_206	S	V	T	E	I	T	E	S	D
MPXV-SL_001	S	V	T	E	I	T	E	S	D
MPXV-SL_177	S	V	T	E	I	T	E	S	D
MPXV_296_J1L	S	V	T	E	I	T	E	S	D
MPXV_296_J3R	S	V	T	E	I	T	E	S	D
CMV_N96_1	S	V	T	E	I	T	E	S	D
CMV_N96_211	S	V	T	E	I	T	E	S	D
HSPV002	S	V	T	E	I	T	E	S	D
HSPV206	S	V	T	E	I	T	E	S	D
CPXV_GRI_D1L	S	V	T	E	I	T	E	S	D
CPXV_GRI_15R	S	V	T	E	I	T	E	S	D
CPXV_BRI_003	S	V	T	E	I	T	E	S	D
CPXV_BRI_227	S	V	T	E	I	T	E	S	D
CPXV_GER91_001	S	V	T	E	I	T	E	S	D
CPXV_GER91_217	S	V	T	E	I	T	E	S	D
ECTV_MOS_001	S	V	T	E	I	T	E	S	D
ECTV_MOS_K2R	S	V	T	E	I	T	E	S	D
VACV_Lister_vCCI	S	V	T	E	I	T	E	S	D
MYXV_LAU_m001L	S	V	T	E	I	T	E	S	D
MYXV_LAU_M-T1	S	V	T	E	I	T	E	S	D
RPXV_Utrecht_35kDa	S	V	T	E	I	T	E	S	D
		110	120	130	140	150	160	170	
VARV_BR266_206	Q	I	K	S	I	S	E	S	A
VARV_CNG70_206	Q	I	K	S	I	S	E	S	A
VARV_GAR_G3R	Q	I	K	S	I	S	E	S	A
VARV_GU69_206	Q	I	K	S	I	S	E	S	A
VARV_IND64_206	Q	I	K	S	I	S	E	S	A
VARV_SLN68_206	Q	I	K	S	I	S	E	S	A
MPXV-SL_001	K	I	S	S	I	S	E	S	S
MPXV-SL_177	K	I	S	S	I	S	E	S	S
MPXV_296_J1L	K	I	S	S	I	S	E	S	S
MPXV_296_J3R	K	I	S	S	I	S	E	S	S
CMV_N96_1	Q	I	K	S	I	S	E	S	A
CMV_N96_211	Q	I	K	S	I	S	E	S	A
HSPV002	K	I	L	S	I	S	E	S	S
HSPV206	K	I	L	S	I	S	E	S	S
CPXV_GRI_D1L	Q	I	K	S	I	S	E	S	A
CPXV_GRI_15R	Q	I	K	S	I	S	E	S	A
CPXV_BRI_003	K	I	S	I	S	E	S	S	I
CPXV_BRI_227	K	I	S	I	S	E	S	S	I
CPXV_GER91_001	K	I	S	I	S	E	S	S	I
CPXV_GER91_217	K	I	S	I	S	E	S	S	I
ECTV_MOS_001	Q	I	K	S	I	S	E	S	A
ECTV_MOS_K2R	Q	I	K	S	I	S	E	S	A
VACV_Lister_vCCI	Q	I	K	S	I	S	E	S	A
MYXV_LAU_m001L	T	Y	K	A	I	S	E	H	V
MYXV_LAU_M-T1	T	Y	K	A	I	S	E	H	V
RPXV_Utrecht_35kDa	Q	I	K	S	I	S	E	S	A
		180	190	200	210	220	230		
VARV_BR266_206	V	L	S	N	I	S	H	K	K
VARV_CNG70_206	V	L	S	N	I	S	H	K	K
VARV_GAR_G3R	V	L	S	N	I	S	H	K	K
VARV_GU69_206	V	L	S	N	I	S	H	K	K
VARV_IND64_206	V	L	S	N	I	S	H	K	K
VARV_SLN68_206	V	L	S	N	I	S	H	K	K
MPXV-SL_001	V	L	S	N	I	S	H	K	K
MPXV-SL_177	V	L	S	N	I	S	H	K	K
MPXV_296_J1L	V	L	S	N	I	S	H	K	K
MPXV_296_J3R	V	L	S	N	I	S	H	K	K
CMV_N96_1	V	L	S	N	I	S	H	K	K
CMV_N96_211	V	L	S	N	I	S	H	K	K
HSPV002	V	L	S	N	I	S	H	K	K
HSPV206	V	L	S	N	I	S	H	K	K
CPXV_GRI_D1L	V	L	S	N	I	S	H	K	K
CPXV_GRI_15R	V	L	S	N	I	S	H	K	K
CPXV_BRI_003	V	L	S	N	I	S	H	K	K
CPXV_BRI_227	V	L	S	N	I	S	H	K	K
CPXV_GER91_001	V	L	S	N	I	S	H	K	K
CPXV_GER91_217	V	L	S	N	I	S	H	K	K
ECTV_MOS_001	V	L	S	N	I	S	H	K	K
ECTV_MOS_K2R	V	L	S	N	I	S	H	K	K
VACV_Lister_vCCI	V	L	S	N	I	S	H	K	K
MYXV_LAU_m001L	A	L	V	P	R	I	T	O	A
MYXV_LAU_M-T1	A	L	V	P	R	I	T	O	A
RPXV_Utrecht_35kDa	V	L	S	N	I	S	H	K	K
		240	250						
VARV_BR266_206	D	T	S	L	I	D	S	T	K
VARV_CNG70_206	D	T	S	L	I	D	S	T	K
VARV_GAR_G3R	D	T	S	L	I	D	S	T	K
VARV_GU69_206	D	T	S	L	I	D	S	T	K
VARV_IND64_206	D	T	S	L	I	D	S	T	K
VARV_SLN68_206	D	T	S	L	I	D	S	T	K
MPXV-SL_001	D	T	S	L	I	D	S	T	K
MPXV-SL_177	D	T	S	L	I	D	S	T	K
MPXV_296_J1L	D	T	S	L	I	D	S	T	K
MPXV_296_J3R	D	T	S	L	I	D	S	T	K
CMV_N96_1	D	T	S	L	I	D	S	T	K
CMV_N96_211	D	T	S	L	I	D	S	T	K
HSPV002	N	T	S	L	I	D	S	T	K
HSPV206	N	T	S	L	I	D	S	T	K
CPXV_GRI_D1L	D	T	S	L	I	D	S	T	K
CPXV_GRI_15R	D	T	S	L	I	D	S	T	K
CPXV_BRI_003	D	T	S	L	I	N	S	A	K
CPXV_BRI_227	D	T	S	L	I	N	S	A	K
CPXV_GER91_001	D	T	S	L	I	N	S	A	K
CPXV_GER91_217	D	T	S	L	I	N	S	A	K
ECTV_MOS_001	D	T	S	L	I	D	S	T	K
ECTV_MOS_K2R	D	T	S	L	I	D	S	T	K
VACV_Lister_vCCI	D	T	S	L	I	D	S	T	K
MYXV_LAU_m001L	D	I	L	V	L	R	T	P	T
MYXV_LAU_M-T1	D	I	L	V	L	R	T	P	T
RPXV_Utrecht_35kDa	D	T	S	L	I	D	S	T	K

Figure S1. Sequence alignment of the vCCI family members. Cysteine residues are boxed in yellow Predicted N-linked glycosylation sites are boxed in blue.