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		L-REGION	FR1-IMGT (1-26)		CDR1-IMGT (27-38)	FR2-IMGT (39-55)		CDR2-IMGT (56-65)	FR3-IMGT (66-104)		CDR3-IMGT (105-117)																		
			A (1-15)	B (16-26)	BC (27-38)	C (39-46)	C' (47-55)	C'C" (56-65)	C" (66-74)	D (75-84)	E (85-96)	F (97-104)	FG																
TRGV	gene_name	Functionality	1	10	15	16	23	26	27	38	39	41	46	47	55	56	65	66	74	75	80	84	85	89	96	97	104	105	
TRBV1	F	MVLFPPVLWG	VLM	AAVNAT	ASFVEQKPRWV	LVAH	GRAETLR	CILR	NSQ.....YPW	MSWYQQDL	QGQLEVLAT	LRS....SGD	EEVVS	SRPGA	DYRIKRV	ND	TELKL	HVANVTQ	ARTLYCT	C	SK.....	[6.6.2]							
TRBV2-1	P	MRCPCGRDL	PPTL	GDF* <b>TQ</b>	RT*SQDPDKI	WVTEM	EEEVILR	CNPI	SGH.....LY	LYCYGEIL	GQKVEFLIS	FYN....ENL	SEKSEIF	FRD	RFSVERP	DG	SFSN	LKIQRL	REL	GDSAVYF	C	ASSV...	[5.6.4]						
TRBV2-2	F	MDSRLRFCC	VIFGL	LGVGHM	ETGISQTPSH	YIREM	GQNISLR	CEPI	SSH.....FY	FYWYRQTL	EKGVEFLIS	VYN....KVP	SEKADFL	KD	RFSAEMP	DG	SRFT	LKIQPVQL		GDSAVYL	C	ASSL...	[5.6.4]						
TRBV2-3	P	MDTWLLC	WVTF	SLLEAGHT	EPEVSQTPSH	QITEM	GQEVILR	CDPV	SGH.....LN	LYW* <b>RQIL</b>	GQKVEFLIS	FYN....ENL	SEKSEIL	KD	*FSAERS	DG	SFST	LKIQLTEV		GVSAYYL	C	ASSL...	[5.6.4]						
TRBV3-1	F	MGSRLCC	VALC	LLGADPL	DTSVSQTPEY	LISQV	GNKKT	TLKCEQN	LNH.....DA	MYWYIQDS	KKLLKIMFS	YNN....KQP	IVNETAS	.N	RFSPEAP	.DK	AHLHL	HINSLEP		GDSAVYF	C	ASSK...	[5.6.4]						
TRBV3-2	F	MGSRLCC	VALC	LLGAGPL	DTAVSQTPKY	LISRV	GNEKTLK	CEQN	LSH.....NA	MYWYVQDS	KKLLKIMFS	YNN....KQP	IVNETAS	.N	RFSPEAP	.DN	AHLNL	HINSLEP		SDSAVYF	C	ASSQ...	[5.6.4]						
TRBV3-3	F	MGSRLCC	VALC	LLGAGPL	DTAVSQTPKY	LISQV	GNEKTLK	CEQT	LGH.....NA	MYWYQKDS	KKLLKIMFI	YNN....KER	DLNETVP	.S	RFSPEAP	.DN	AHLNL	HVSLEP		GDSAVYF	C	ASSQ...	[5.6.4]						
TRBV4-5	P	MS*RLC	CCVAL	CLLREVL	MTGITQIAKH	LVMGL	RN*KSLK	CEQH	LGH.....YP	ICWYKQSV	QKPLALMLV	YNY....KEL	SENKTVS	.S	RFLLECP	.DS	SLSHL	HVDTELE		*DSTVYF	C	ASSK...	[5.6.4]						
TRBV5-1	P	MGSRFLCY	VALC	LLGTGPV	DSGVVQT	TPRHLIKAR	GQQVPLR	CSPI	SGH.....SR	VSWYQQAL	GQGPQFLIQ	YYM....GRE	NGKGDIL	.D	*FSGRQF	.SD	YSSEL	NMSVLEL		TDSALYL	*	ASSA...	[5.6.4]						
TRBV5-2	F	MGSRLCC	VALC	LLGAGPV	DSGVIQT	TPRHLIKAK	GQQMTLR	CSPI	STH.....PY	VYWYQQVL	GQGPRLFIQ	YFD....EKE	NDRGDSS	.D	RFSGKQF	.SN	YSSEL	LKVSLEL		VDSALYL	C	ASSL...	[5.6.4]						
TRBV5-4	ORF	MGSRLCC	VALC	LLGASAV	DSGVTQT	TPRHLIKTK	GQQVTLR	CSPI	SGH.....PR	VSWYQQAL	GQGPQFLFQ	YYM....GRE	NGKGDIP	.D	RFKGQQF	.SN	YCSEL	-----		TDSALYL	C	ASSA...	[5.6.4]						
TRBV5-7	F	MSSTLLC	VALC	LLGAGPV	DSGVTQT	PRHLVKTR	GQQVTLR	CSFM	SGH.....DT	VSWYRQPL	GQGLQFLIQ	YYR....GEE	NGKGDFF	.G	RFKGQQ	.DN	YSSEL	LNVSLEL		VDSALYF	C	ASSL...	[5.6.4]						
TRBV5-12	F	MGYRLLC	YVAL	CLLGAGPV	DSGVIQT	PRHVVKAK	RQQVMLK	CSPI	SEH.....DT	VSWYQQAL	GQGPKFLIQ	YYN....GEV	REKGDIP	.D	RFSGQQF	.GN	RSSEL	NLTILEL		TDSALYL	C	ASSL...	[5.6.4]						
TRBV5-13	F	MGSRLCC	VALC	LLGTGPV	DSGVTQT	TPRHLIKAR	GQQVTLR	CSPI	SGH.....NR	VFWYQQPL	GQGPQFLFY	YYN....GKE	NEKGDVP	.A	RFSGQQF	.SD	YRSEL	LNVSLEL		KDSALYL	C	ASSS...	[5.6.4]						
TRBV5-15	F	MASRLCC	VALC	VLGTGPV	DSGVTQT	TPRHLIKAR	GQQVTMR	CSPI	SGH.....KS	VFWYQQPL	GQGPQFLVQ	YYN....EKE	NEKADTA	.N	RFLGKQF	.SN	YSSEL	LNVSFLEL		TDSALYL	C	ASSV...	[5.6.4]						
TRBV5-17	P	TGSRLC	CRAML	CLLGGGPV	EAGVTET	PRYLIKT	GQAVTLR	CS	SKH.....SG	VSWYQQAL	SQDPHLLFE	FYE....NVQ	RAKEIP	.N	RFSAQQL	.RD	YRSEL	LNVSLEL		MDSALYL	C	ASSV...	[5.6.4]						
TRBV5-19	F	MGSRLCC	VALC	LLGAGPV	DSGVTQT	PKHLIKAK	GQQMTLR	CSPI	STH.....LS	VYWYQQAL	GQGPQFLIQ	YYD....GEE	REKGNIS	.G	RFSGQQF	.RD	RSSEL	NVSILEL		TDSALYL	C	ASSL...	[5.6.4]						
TRBV6-1	F	MSGGLLC	WVAF	CLLQAGAV	NAGVTQT	PKFHILET	GQNTTLR	CAQD	MNH.....DS	MYWYRQDL	GHGLRLIRY	SAG....AGV	TEKRDVP	.D	GYRVS	RS	NT	ENFSL	TVLESATP		SQTSVYF	C	ASS*	[5.6.4]					
TRBV6-2	F	MSGGLLC	WVAF	CLLQAAV	NAGVTQN	PKFQVLGT	GQNMTLR	CAQD	MNH.....SY	MYWYRQDL	RHGLRLIHY	SRA....ANV	TEKGDIP	.E	GYRVS	SRP	.NT	ENFL	FTVESATP		SQTSVYF	C	ASSY...	[5.6.4]					
TRBV6-3	F	MSGGLLC	WVAF	CLLQAAV	NAGVTQT	PRFQVLR	GENTTLR	CTQD	MNH.....NS	MYWYRQDL	GHGLRLIHF	SVG....ADA	TANRDVP	.D	GYRVS	RS	.DT	KNFAL	MLESATP		SQTSVYF	C	ASS*	[5.6.4]					
TRBV6-4	F	MSGGLLC	WVAF	CLLQAAV	NAGVTQT	PRFQILGT	GQNTTLR	CAQD	MNH.....NS	MYWYRQDL	GHGLRLIRY	SAG....AGV	TEE	.DGP	.D	GYRVS	RS	.DT	KNFSL	TLVSATP		SQTSVYF	C	ASSY...	[5.6.4]				
TRBV6-5	F	MSGGLLC	WVAF	CLLQAGAV	NAGVTQT	PKFHILET	GQNTTLR	CAQD	MNH.....DY	MYWYRQDL	GHGLRLIHY	SRT....SGV	TEARDIP	.D	GYRVS	RS	.NT	ENFL	TLVSPPT		SKTSVYF	C	ASSY...	[5.6.4]					
TRBV6-6	F	MSGGLLC	WVAF	CLLQAGAV	NAGVIQT	PKFQVLKT	GQNTTLR	CTQD	MNH.....DS	TYWYRQDL	GHGLRLIHY	SVG....AGV	TANRDVP	.D	GYRVS	RS	.NT	ENFPL	LIVSATP		SQTSVYF	C	ASS*	[5.6.4]					
TRBV7-2	F	MGTRLLS	FMFT	FCLLGADHT	DAGISQSP	PRHRVTER	GQDAALK	CDPI	SGH.....TY	LYWYRQTL	GQNLEFLTY	FQD....DLA	SDTSGMPND		RYSAKRP	.EG	SSST	LKIQHAEQ		GDSALYL	C	ASSS...	[5.6.4]						
TRBV7-3	P	MEHICVL	SCVT	LCLLGAGHT	DAGVQP	SPRHRVTER	VQAAVAL	CDPI	CGG.....AT	LYWYQQTL	RQGPPEFLIY	FMN....KNV	PDIP	PGTPNI		PFS	PERP	.EG	GD*	IVYL	C	ASSS...	[5.6.4]						
TRBV7-7	F	MGTRLLC	CLTL	CLLGAGHT	DTGVSQSP	PRHRVTKY	GEDVAFR	CDPI	SEH.....TR	LYWYRQTP	GQNMEFLTY	FQN....DFA	SDTSGMPSD		RFS	AERP	.KG	SYST	LKIQRAEQ		RDSAVYL	C	ASSL...	[5.6.4]					
TRBV7-9	F	MGTRLLC	CLTL	FCLLGTDHT	KAGVCQSP	PRNRVSR	GQDVAFK	CDPI	SEH.....TQ	LCWYRETL	GKGLEFLMY	FQD....DFA	SDTSGMLKD		QFSAERP	.EG	SSPIL	LKIQHTEQ		GDSAVYL	C	QQLS...	[5.6.4]						
TRBV7-11	F	MGTRILC	WVTL	CLLGADHT	DAGVQSQSP	PRHRVTER	GQDVAFK	CDPI	SGH.....TH	LYWYRQTR	GQGLEFLMY	FRD....DFA	SDTSGMLKD		WFS	AERP	.EG	SSST	LKIQHAEQ		GDSAVYL	C	QQLS...	[5.6.4]					
TRBV8-3	P	VSLNFFC	VTLC	LLGAGPM	DAGITQK	PRYHITQT	GDKMILE	CSQT	MSH.....LA	MFWYRQDP	GQGPRLIHY	SGD....VNS	TAKGDIT	.E	GYSVSRN	.KK	EDF	TVLESAT		KQTSLYL	C	ASSK...	[5.6.4]						
TRBV8-4	ORF	MSLNFFC	VTLC	LLGAGPM	DAGITQK	PRYHITQT	GGKTILE	CSQN	MSH.....FA	MFWYRQDP	GQGPRLIHY	SSG....VNS	TAKGDIT	.E	GYSVSRK	.KI	EDFP	TVLESAT		KQTSLYL	C	ASSK...	[5.6.4]						
TRBV8-5	ORF	MSLNFFC	VTLC	LLGAGPM	DAGITQK	PRYHITQT	GDKMILE	CSQT	MSH.....FA	MFWYRQDP	GQGPRLIHY	SSG....VNS	TAKGDIT	.E	GYSVSRK	.KI	EDFP	TVLESVST		KQTSLYL	C	ASSE...	[5.6.4]						
TRBV8-7	P	MSLNFFC	VTLC	LLGAGPM	DAEITQT	TPR*HITQT	GDKMILE	CSQN	MSH.....LS	MFWYQQDP	GEGPRLIHY	STD....VRS	TTRGNVP	.E	GYSVFRN	.KK	ENFP	TVLESAT		NQTSLYP	C	ASSE...	[5.6.4]						
TRBV10-1	F	MGTRLF	FCCVAL	CFLWTGQVD	AGAGITQ	SPHKITAT	GKRVTLT	CHQT	QKH.....DY	MYWYRQDL	GHGLKLIHY	SYD....ILK	TEEGEVP	.D	GYNVSR	.NI	EDFP	TVLESATP		SQTSVYF	C	ASSY...	[5.6.4]						
TRBV10-2	P	MYTRLF	FCCVAL	CFLWTGQVD	AGAGITQ	SPHKITGT	GKMVTLT	CHQT	QNH.....DY	MCWY*QDR	GHGLRLIHY	SNG....IGS	TDKGEVH	.D	GYSVSR	.ST	ENFP	TVLESATP		SQTSVYF	C	ASSY...	[5.6.4]						
TRBV10-3	P	MGIGLF	FCCVAL	CFLWTGQVD	AGAGITQ	SPHKITGT	GKRVTLR	CHQT	QNH.....DY	MY*YQDDL	GHGLRLIHY	SNG....IDS	TDKGEVP	.D	GYRVSR	.NT	ENFP	TVLESATP		SQTSVYF	C	ASSY...	[5.6.4]						
TRBV11-4	F	MGTRFLC	WVTL	CLLGAELT	EGGVTSQSP	PRHMITGK	GQAVALW	CDPI	SGH.....RA	LYWYQQTL	GQGLGLLIS	FED....EAV	ADDSQLPKH		RFS	AERS	.KG	GDSP	LQIKPAEL		GDSAMYF	C	ASSL...	[5.6.4]					
TRBV12-1	ORF	MGTWALC	CVLL	CLLGVEPI	DAGVNTQ	TPRHQVTKM	GQAVTLR	RREPI	SSH.....TA	LFWYRQTS	VQGLEFLFY	FHD....QIA	IDQKGRSKD		RFS	AEMP	.NR	SLST	LKIQCTEP		RDSAVYL	C	ASSL...	[5.6.4]					
TRBV12-2	F	MATRLLC	VALC	LLGVEPT	DAGVIQT	PRHQLT	TKM	GQTVTLT	CEPI	STH.....DT	VFWYRQTS	VKGLEFLIY	FRD....QAP	MDKTGMPND		RFS	AEMP	.NG	SFST	LKIQRTPE		GDAAVYL	C	ASSL...	[5.6.4]				
TRBV12-4	P	LATRLLC	CVAF	YLLGVEPT	DARVTQIP	PRHYVTEM	EQAVTL*	CEPI	YSH.....DT	LF*YRQTE	VQ*LLELLN	SCR....RDV	MNETGMPKD		RFS	AEMS	.DG	SFPT	LKIRHTEP		GDSAMCL	C	ASSL...	[5.6.4]					
TRBV12-5	F	MGRALCC	CVLL	CLLGREST	DAGVTQE	PRHYVTKM	RQAVTLT	CEPV	SNH.....TA	LFWYRQDP	VKGLKFLIY	LRN....QAP	IAQTGMPKD		RFS	AEMP	.NR	SLST	LKIQRTPE		GDSAMYI	C	ASSL...	[5.6.4]					
TRBV12-6	P	MGRTRL	C	CVLLC	LLGVEPT	DAGVTQE	PRHQVTKV	GQTVTLR	CEPI	SSH.....TA	LFWYRQTL	LQGLEVLIS	FGN....QSP	IDETGMPKD		WFS	AEMP	.DR	SF*	TLKIQCTEP		EDSAMYL	C	ASSL...	[5.6.4]				
TRBV12-7	F	MDTWALC	CVLL	CLLGVEPI	DSGVTQE	PRHQVTKM	GQDVTLR	CEPI	SSH.....TD	LFWYRQTS	VQGLEFLIY	FSN....QAV	IDQTGMPKD		RFS	AEMP	.NR	SFST	LKIQHTEP		RDSAVYL	C	ASSL...	[5.6.4]					
TRBV13-3	P	MLHLVL	PEYP	WAVQLCC	VALC	LLGAGP-	EDAVI*	SPRHLIKG	GGKAVLI	CYPS	SGH.....SS	VWFQQAL	GQSPHFLTE	YYE....KEQ	REKGNIP	.D	RFS	AQQF	.SE	YSSEL	LDVSSLEL		EDSALCL	C	ASSS...	[5.6.4]			
TRBV13-4	F	MLCLVLP	PESARGT	QLCCVAL	RLLLEGPA	GAGVIQF	PKHLIKGM	GKNVTLK	CYPS	SGH.....SS	VCWFQQAL	GQGPQFLIK	YYE....KEQ	GKERNIP	.D	RFS	AQQF	.SD	YSSEL	LDVSSLEL		EESALYL	C	ASSS...	[5.6.4]				
TRBV14-1	P	MVSMLLS	LVSL	CLLGARHT--	SAGVTQF	PSHGVIEK	KQSVTLR	CDPI	SGH.....EG	LYWYRHAV	GKEIKFLY	FLR....EDK	QDDSGMPNE		*FSAERT	.GG	TFST	LKVQHAEQ		EDSGVYF	C	GSSQ...	[5.6.4]						
TRBV14-2	F	MVSMLLN	LVCL	CLLGARHTVE	SAGVTQF	PNHRVIEK	KQAVTLR	CDPI	SGH.....EA	LYWYRRAY	GKEIKFLVY	FLG....EDK	QDDSGMPNK		QFSAERI	.GG	TFST	LNQHAEQ		EDSGVYF	C	ASSQ...	[5.6.4]						
TRBV14-3	F	MVFMLLS	LVCL	CLLGARHTVE	SAGVTQF	PNYRVIEK	KQAVTLR	CDPI	SGH.....AS	LYWYRRAY	GKEIKFLVY	FLR....KDK	QDDSGMPNE		RFS	AERT	.EG	TFST	LKVQHAEQ		EDSGVYF	C	ASSQ...	[5.6.4]					
TRBV14-4	F	MLSMLLS	LVSL	CLLGARHT	SAGVTQF	PSHRVIEK	KQSVTLR	CDPV	PGH.....QA	LFWYQRAV	GKEITFLIY	FLR....ENK	QDES	GMSNK		RFS	AERT	.NG	TFST	LKIQPAEL		EDSGVYF	C	ASSQ...	[5.6.4]				
TRBV15-1	F	MDLRLLY	CVAL	CLLRVGHM	AAMVTQK	PRYQVARK	GKPVTL	CS	PN	LNH.....KY	MYWYQKQP	SQAPKLLFS	YYD....KEF	NNETDTS	.D	NF													

TRBV16-4	F	MCSIFICFMVLS-LLGAGAL	DAEVTQTPGHLVEGK	EQKVKMYCVPK	KGH.....SY	VFWYQQNL	AKKFKFLIS	FQY....ENI	FGETEMPKE	RFSAECP.PN	SPCSLEIPPTTEL	QDSAVYLC	ANSE...	[5.6.4]
TRBV16-5	F	MSPIFICFMVLSHLLGAGVL	DAAVTQTPGQLIKGK	EQKVKMYCVPK	KGH.....PF	IFWYQQNL	AKEFKFLIS	FQN....ENI	LEETEMPKE	RFSAECP.PN	SPCSLEIHPTEL	QDSAVYLC	ASGE...	[5.6.4]
TRBV18-3	P	MGSTLFCWVVIWLLGAGPT	NSSVIQDPRHLVRGR	GQEATSRCSLV	RAY.....SR	VYWCQRHL	*ESLKFMiy	L*K....*KV	IHNSARSAK	RFSAEFP.KE	GPSVLKIQLAEL	RDSAVYSC	ARS*...	[5.6.4]
TRBV18-6	P	MGPRLLCWVLIWLLGADPT	NAGNIQEPTNLVRER	GQEATLSCGPV	TGH.....SH	VYWY*TVL	*KGLKFMID	LQK....ENV	TYES*MPIT	HFSAEFP.KQ	GHSVFNI*LAEL	GDSAVYF*	ARS*...	[5.6.4]
TRBV20-3	F	MGDDDSRKSEKILQNKQDSGLGL	GALVSQHPSKAICMN	GTSVKIECRAM	DFQ.....AQT	MFWYRQLP	KQGLTLMVA	SSDN...SSI	TYEQGFTRA	KFPINHL.NR	TFSTLTVMVSVHP	ADSGLYFC	SAS....	[6.7.3]
TRBV20-7	P	MGDYDPRESDRKTSSENTQDSGSGGL	GVLVSQHPSRAICKN	GSSVEMECRTV	DLE.....AQT	VCWYHQLP	NQGITLIAT	SIQG...SDP	TYEQGFPPKV	KFPISHP.NL	TLSTLTILSAHP	ANSGLYFC	GAS....	[6.7.3]
TRBV21-1	F	MCHRLCCVALFFWGAGSM	DTKVTQRPGLVKGK	EQKAKMDCFPi	KTH.....IH	VYWYRRKL	EGEFEFLVY	VRN....GEI	TDKIEGFDQ	QFSVERS.QD	ERYSLLEIKSTEP	GDSALYFC	ASSE...	[5.6.4]
TRBV21-2	F	MSLRLCCVALFFWGAGSM	DTKVTQRPGLVKGK	EQKAKMTCVPI	KAH.....IH	VYWYRRKL	EGEFEFLVY	LQN...NDV	IDKIEGFDQ	QFSAQCP.KN	ASCSLEIKSTEP	GDSALYFC	ASSE...	[5.6.4]
TRBV21-3	F	MCCRLLCCVALFFWGAGSM	DTKVTQRPGLVKGK	EQKAKMDCVPI	KTH.....SY	VYWYRRKL	EGEFEFLVY	LQN....GKI	TDKIEGFDQ	QFSAQCP.QD	ASCSLEIKSTEP	GDSALYFC	ASSE...	[5.6.4]
TRBV21-4	F	MQCRLCCVALFFWGAGSM	DTKVTQSPGLVKGK	EQKAKMDCVPV	KTH.....SY	VYWYRQKL	EGEFDLFLVY	LGN....GKI	TDKIEGFDQ	QFSAQCP.QD	ASCSLEIKSTEP	GDSALYFC	ASSE...	[5.6.4]
TRBV22-1	P	MGSWALCYIAFCLLGAGPV	DAKIYQMPAFLLTGA	E*DVTVECKQN	LEY.....NA	MYQYRQNP	GQGLRLIYY	SQV....VNY	VHKGDVP.E	GHAFSRE.ET	EMSP <sup>L</sup> TVRLAHI	NQTGLYLY	SG.....	[5.6.2]
TRBV22-2	ORF	MGCRA <sup>L</sup> LCYIAFCLLGAGPV	DAKIYQMPAFLLTGV	EQDVTLECKQN	LEY.....ND	MYQCRKDP	GQGLRLIYY	SQV....VNY	VHKGDVP.E	GHAFSRE.ET	EMSP <sup>L</sup> TVRLAHI	NQTGLHLY	SG.....	[5.6.2]
TRBV24	P	MASMLCCVAFCLLG <sup>T</sup> GSM	DTGVTQTPRNRITKT	GKSVVPEC <sup>S</sup> QT	KGH.....DQ	MYWYRQDL	GLGLQLIYY	SYD....VND	ISKGEIS.G	GYSEF*K.EK	VKFFLSLEMAVA	NQMALYFW	ASSYL..	[5.6.5]
TRBV25	F	MAVRLWYVALYLLRAGLM	DADVFQTPKHCVTGT	GKKITLECFQS	MNH.....DN	MYWYRQDA	GRELQLLHY	SYG....VNN	TEKGDVP.S	ESTVSRL.RK	DRFSLTLESASP	SQTSLYLC	ASS*...	[5.6.4]
TRBV27-1	F	MGPWLLGYIMLCLLGAGPM	DAKVIQTPRHLITET	GKKLTVNCSQD	MNH.....DA	MYWYRQDP	GLGLKLIHY	STN....VEV	LYNGDVP.D	GYTVSRK.DK	GNFSLTLESASI	NQTSLYLC	ASSE...	[5.6.4]
TRBV27-2	F	MGPQLLGCVMCLLGAGLM	EAKVTQAPRHLIEET	GKKLTVNCSQD	MNH.....DT	MYWYRQDP	GLGLKLIHY	SIN....EIL	-YKGDVP.D	GYAVSRK.DT	GEFPLTLESASI	NQTSLYLC	ASSE...	[5.6.4]
TRBV28-1	F	MGIRLLCVVAFCFPGLGFM	DATVTQTERYLVKRR	GDKVVMHCQQN	MDH.....NS	MFWYRQDP	ALGLQLLHF	SYR....IDD	EQKGDAP.E	GYSVSRK.KK	ENFTLILESAST	NQTSVYLC	ASSF...	[5.6.4]
TRBV28-2	F	MGFTLLCAVTF <sup>C</sup> FLGVGFM	DTNVTQTPRYLVKRI	REKVVMECSQN	MDH.....ET	MLWYRQDP	ALGLQLLHF	SIG....IDD	KQEGDAP.E	GYSVSRK.KK	ENFTLILESAST	NQTSVYLC	ASSF...	[5.6.4]
TRBV28-3	F	MGFTLLCAVAF <sup>C</sup> FLGQGF <sup>M</sup>	DATVTQTERYLVKRR	GDKVVMD <sup>C</sup> QQN	MDH.....NS	MFWYRQDP	ALGLQLLYF	SDS....VGD	KQEGDDP.E	GYSVSRK.KK	ENFTLILEPAST	NQTSVYLC	ASSL...	[5.6.4]
TRBV29	F	MLTFLLLLLELGSVF	GALLSQKPSRAICQR	GTTMKIQCEVD	TEL.....TL	MFWYSQLP	GQSLTLIAT	ANQG...SEA	TYESGFTKD	KFPISRP.TL	RFSTLT <sup>V</sup> VNNTSP	EDSSFYFC	SAG...	[5.7.3]