

(B)

TRBD gene name	5'D-NONAMER <u>GGTTTTTGT</u>	5'D-SPACER	5'D-HEPTAMER <u>CACTGTG</u>	D-REGION	3'D-HEPTAMER <u>CACAGTG</u>	3'D-SPACER	3'D-NONAMER <u>ACAAAAACC</u>
TRBD1	cgtttttgt	acaaagctgtaa	cattgtg	GGGACAGCAGGC G T A G G Q Q D S R	cacggtg	attcaactttatggacaaccttt	acaaaaacc
TRBD2	cattttttga	atcatagtgtaa	cattgtg	GGGACTGGGGGGTGGAG G T G G W G L G G G D W G V E	cacgatg	attcaggtaaaggaggtgctttt	acaaaaagc

(C)

TRBJ gene name	Fct	J-NONAMER <u>GGTTTTGT</u>	J-SPACER	J-HEPTAMER <u>CACTGTG</u>	J-REGION	5'splice donor
TRBJ1-1	F	atttttctc	cttgcccatgt	cactgtg	TGAACACTGAAGTCTTCTTCGGAGAAGGCACGAGGCTCACGGTTGTAG <u>N T E V F F G E G T R L T V V</u>	gtaaga
TRBJ1-2	F	cattttgga	gtggccgtattc	tgatgtg	TTAACATGACTATCACTTTGGCCCAGGAACAACTGACGGTCATAG <u>N Y D Y H F G P G T K L T V I</u>	gtaagc
TRBJ1-3	F	ggttttgaa	gggatctggga	ggctgtg	CTTTGGAAACACCGTTGATTTTGGGGAGGGAAGCCGGCTCACTGTTGTAG <u>F G N T V D F G E G S R L T V V</u>	gtaagc
TRBJ1-4	F	cagttttct	accaggctttac	tgttgtg	TAACTAATGAAAACTATTTTTTCGGCAATGGAACCAAGCTCTCTGTCTTGG <u>T N E K L F F G N G T K L S V L</u>	gtaagt
TRBJ1-5	F	gggttttcc	acactcatgttg	tactgtg	GAGCAACCAGCCACAGCACTTTGGAGAGGGAACCTCGACTCTCTGTCCTAG <u>S N Q P Q H F G E G T R L S V L</u>	gtaagg
TRBJ1-6	F	ggttttagc	acagctgtctgc	agctgtg	TTCCTATAATTTCGCCGCTCTACTTTGGGCCCGGCACCAGGCTCACTGTCACAG <u>S Y N S P L Y F G P G T R L T V T</u>	gtatcg
TRBJ2-1	F	gaattcttg	gcagccccttcc	cactgtg	CTCTTACAATGAGCTGTTCTTCGGGCCAGGGACTCGGCTCACTGTGCTAG <u>S Y N E L F F G P G T R L T V L</u>	gtaaga
TRBJ2-2	F	ggttgctc	ctgggtccccag	ggctgtg	CGAACACGGGGCAGCTGTTCTTTGGGGACGGTTCCAAGCTGACTGTGCTCG <u>N T G Q L F F G D G S K L T V L</u>	gtaagg
TRBJ2-3	F	ggtttttgt	cctggggctcgg	ggctgtg	AGTACAGACCCTCAATATTTTCGGCCAGGGCACCCGGCTGACCGTGCTAG <u>S T D P Q Y F G Q G T R L T V L</u>	gtaagc
TRBJ2-4	F	cgtttttgt	gctgcgcccggg	ggctgtg	AGCCAAAATACTCAGTACTTCGGCCCCGGTACTCGGCTGTCGGTGCTAG <u>S Q N T Q Y F G P G T R L S V L</u>	gtaagc
TRBJ2-5	F	ggtttttgc	gcggggctcggg	ggccgtg	ACCTCAGAGACGAGTACTTCGGGCCCGGCACGCGGCTCTTCGTGCTGG <u>T S E T Q Y F G P G T R L F V L</u>	gtaagc
TRBJ2-6	F	ggttttggg	cagaagctctgg	ggctgtg	CTTTCGGGCGCCGACCAGACTTTTCGGGGCCGGCAGCCGGCTGACCGTCGTGG <u>L S G A D Q T F G A G S R L T V V</u>	gtgagt
TRBJ2-7	F	ggtttacgt	gtggggcttggt	ctccgtg	CTCTTACGAGCAGTACTTCGGCTCCGGCACCAAGCTCACGGTCATAG <u>S Y E Q Y F G S G T K L T V I</u>	gtaaga

(D)

		C-DOMAIN [EX1]																																				
		A (1-15)					AB	B (16-26)					BC (27-38)		C (39-45)		CD	D (77-84)					DE	E (85-96)					EF (97-104)		F (105-117)			G (118-128)				
TRBC	gene name	Fct																																				
		1	10	15	16	23	26	27	36	39	41	45	77	80	84	85	89	96	97	104	105	117	118	121	128													
TRBC1	F	(E)NLNQVTLPKVAVFEPSEAEISR...	87654321 123	16	23	26	27	36	39	41	45	77	80	84	85	89	96	97	104	105	117	118	121	128														
		TEKATLVCLAT GFYP..DHVE LSWVNGKEVQT..GVSTDPQPYREQSDD.ENPSYCLSSRLRVSAFWH.NPRNHFR C QVQFFGL EN..DEWKE.NRTKPVRQNI SAEAWGRA...																																				
TRBC2	F	(E)NLNQVTLPKVAVFEPSEAEISR...	87654321 123	16	23	26	27	36	39	41	45	77	80	84	85	89	96	97	104	105	117	118	121	128														
		TEKATLVCLAT GFYP..DHVE LSWVNGKEVQT..GVSTDPQPYREQSDD.ENPSYCLSSRLRVSAFWH.NPRNHFR C QVQFFGL EN..DEWKE.NRTKPVRQNI SAEAWGRA...																																				

CONNECTING-REGION			TRANSMEMBRANE-REGION			CYTOPLASMIC-REGION		
{EX2}			{EX3}			{EX4}		
TRBC1	(D)CGLSS	(V)SYQRGVLSATILYE	ILLGKATLYAVLV	SALVLMAM	VRRKDE			
TRBC2	(D)CGLSS	(V)SYQRGVLSATILYE	ILLGKATLYAVLV	SALVLMAM	VKKKDS			