Supplementary Data:

Table S1. Putative pathogenic T cell clones: CDR3 nucleotide and amino acid sequences and TCR Vβ family usage.

CDR3 Nucleotide Sequence	CDR3 Amino Acid Sequence	CDR3 Vβ Gene
ATCCGGTCCACAAAGCTGGAGGACTCAGCCATGTACTTCTGTGCCAGCGCCGGACAGAGCTCTGGAAACACCATATATTTTGGAGAG	CASAGQSSGNTIYF	TCRBV02
GTGACATCGGCCCAAAAGAACCCGACAGCTTTCTATCTCTGTGCCAGTAGTATAGGGTTCGCTGGAAACACCATATATTTTGGAGAG	CASSIGFAGNTIYF	TCRBV19
AATTCCCTGGAGCTTGGTGACTCTGCTGTGTATTTCTGTGCCAGCAGCCAAGGACTAGCGGGAACCTACGAGCAGTACTTCGGGCCG	CASSQGLAGTYEQYF	TCRBV03
TCCACAAAGCTGGAGGACTCAGCCATGTACTTCTGTGCCAGCGGTTTGATCGGGCAGGGGTCCACCGGGGAGCTGTTTTTTGGAGAA	CASGLIGQGSTGELFF	TCRBV02
GCTCCCTCCCAGACATCTGTGTACTTCTGTGCCAGCATCGATCCCCTTCGACCGATCCCCGGTGATCAGCCCCAGCATTTTGGTGAT	CASIDPLRPIPGDQPQHF	TCRBV06
CCTGCAAAGCTTGAGGACTCGGCCGTGTATCTCTGTGCCAGCAGCTTAGTCCAGGGGATCTCTGGAAACACCATATATTTTGGAGAG	CASSLVQGISGNTIYF	TCRBV11
ATCCGGTCCACAAAGCTGGAGGACTCAGCCATGTACTTCTGTGCCAGCAGTGGTCAAGAGCAAAACTATGGCTACACCTTCGGTTCG	CASSGQEQNYGYTF	TCRBV02
ATTCTGGAGTCCGCCAGCACCAACCAGACATCTATGTACCTCTGTGCCAGCACCCTGAGGGACTCCTACGAGCAGTACTTCGGGCCG	CASTLRDSYEQYF	TCRBV28
TCTGCCATCCCCAACCAGACAGCTCTTTACTTCTGTGCCACCAGTGATTCGCAGGGGGCCTCTGGAAACACCATATATTTTGGAGAG	CATSDSQGASGNTIYF	TCRBV24
AGCTCCTTGGAGCTGGGGGACTCAGCCCTGTACTTCTGTGCCAGCAGCGGAGGGGGCGAGGCCAAAAACATTCAGTACTTCGGCGCC	CASSGGGEAKNIQYF	TCRBV13
GCCTTGGAGCTGGAGGACTCGGCCCTGTATCTCTGTGCCAGCAGCTTGGTTGGTCCCTTTTACACCGGGGAGCTGTTTTTTGGAGAA	CASSLVGPFYTGELFF	TCRBV05
CTGATTCTGGAGTCCGCCAGCACCAACCAGACATCTATGTACCTCTGTGCCAGCAGTTTGGGGAGATACGAGCAGTACTTCGGGCCG	CASSLGRYEQYF	TCRBV28
AAGATCCAGCCCTCAGAACCCAGGGACTCAGCTGTGTACTTCTGTGCCAGCAGGATGGCTGGGGCCAACGTCCTGACTTTCGGGGCC	CASRMAGANVLTF	TCRBV12
CTGGAGTCCGCCAGCACCAACCAGACATCTATGTACCTCTGTGCCAGCAGCGCCCGGACCAGGCCGGCCGAGCAGTACTTCGGGCCG	CASSARTRPAEQYF	TCRBV28
TCGGCCCAAAAGAACCCGACAGCTTTCTATCTCTGTGCCAGTAGCTTCCTGGGACTAGCCGGGATAAATACGCAGTATTTTGGCCCA	CASSFLGLAGINTQYF	TCRBV19
GACTCTGCTGTGTATTTCTGTGCCAGCAGCCAAGGACTCGGATCGGGCGGGAGGGCCGGGGCCAAAAACATTCAGTACTTCGGCGCC	CASSQGLGSGGRAGAKNIQYF	TCRBV03
AACATGAGCTCCTTGGAGCTGGGGGACTCAGCCCTGTACTTCTGTGCCAGCGGAGGAGAGACTGGGACTGAAGCTTTCTTTGGACAA	CASGGETGTEAFF	TCRBV13
CAGCGCACACAGCAGGAGGACTCGGCCGTGTATCTCTGTGCCAGCAGCTTAGTGGGGGGTCGGCCAGATACGCAGTATTTTGGCCCA	CASSLVGGRPDTQYF	TCRBV07
CTGAAGATCCAGCCCTCAGAACCCAGGGACTCAGCTGTGTACTTCTGTGCCAGCAGTTTAGGTCGCGAAAAGGCTTTCTTTGGACAA	CASSLGREKAFF	TCRBV12
CTAGAGTCTGCCATCCCCAACCAGACAGCTCTTTACTTCTGTGCCACCAGTGACGCTGGACGGTACACTGAAGCTTTCTTTGGACAA	CATSDAGRYTEAFF	TCRBV24
GTGAGCACCTTGGAGCTGGGGGACTCGGCCCTTTATCTTTGCGCCAGCAGCTTTACGGGTTCCTACAATGAGCAGTTCTTCGGGCCA	CASSFTGSYNEQFF	TCRBV05

GTGAACGCCTTGGAGCTGGACGACTCGGCCCTGTATCTCTGTGCCAGCAGCTTGCAACGAGGAGACTTAGAGCAGTTCTTCGGGCCA	CASSLQRGDLEQFF	TCRBV05
CCTGCAAAGCTTGAGGACTCGGCCGTGTATCTCTGTGCCAGCAGCTTCCTCGCCGGGACAGGGGGCACTGAAGCTTTCTTTGGACAA	CASSFLAGTGGTEAFF	TCRBV11
GTGAACGCCTTGTTGCTGGGGGACTCGGCCCTCTATCTCTGTGCCAGCAGCTACGGAATGGGGGGGAGTGAAGCTTTCTTTGGACAA	CASSYGMGGSEAFF	TCRBV05
TCGGCTGCTCCCTCCCAAACATCTGTGTACTTCTGTGCCAGCAGTTACGTTGGTTTAGCGCCATACAATGAGCAGTTCTTCGGGCCA	CASSYVGLAPYNEQFF	TCRBV06
CCCTCAGAACCCAGGGACTCAGCTGTGTACTTCTGTGCCAGCAGCCCGGGGCAGCGGGAGGGCCTCTACGAGCAGTACTTCGGGCCG	CASSPGQREGLYEQYF	TCRBV12
GCCAGCACCAACCAGACATCTATGTACCTCTGTGCCAGCAGTTTATGGAAATTAGCGGGAGGGCCAGGGGAGCTGTTTTTTGGAGAA	CASSLWKLAGGPGELFF	TCRBV28
CTGCAGCCAGAAGACTCGGCCCTGTATCTCTGCGCCAGCAGCCAAGATACGGGGGGCGCTGGGGCCAACGTCCTGACTTTCGGGGCC	CASSQDTGGAGANVLTF	TCRBV04
GTGAACGCCTTGGAGCTGGACGACTCGGCCCTGTATCTCTGTGCCAGCAGCACCGGACGTATTACAGATACGCAGTATTTTGGCCCA	CASSTGRITDTQYF	TCRBV05
GCCCTGCAGCCAGAAGACTCAGCCCTGTATCTCTGCGCCAGCAGCCAAATGGGCGCAGGGACCCAAGAGACCCAGTACTTCGGGCCA	CASSQMGAGTQETQYF	TCRBV04
GTGACCAGTGCCCATCCTGAAGACAGCAGCTTCTACATCTGCAGTGCTCAGGACAGGTTCTCCTACAATGAGCAGTTCTTCGGGCCA	CSAQDRFSYNEQFF	TCRBV20
GAGTCGGCTGCTCCCTCCCAGACATCTGTGTACTTCTGTGCCAGCAGTGAAGGGAGGGGGGGCGCGGATGAGCAGTTCTTCGGGCCA	CASSEGRGGADEQFF	TCRBV06
TTGGAGCTGGGGGACTCGGCCCTTTATCTTTGCGCCAGCAGCTTGCACCCGGGGAGCTCTGGGGCCAACGTCCTGACTTTCGGGGCC	CASSLHPGSSGANVLTF	TCRBV05
ACCAGTGCCCATCCTGAAGACAGCAGCTTCTACATCTGCAGTGCTAGAGATCACAGTACAGATAATTCACCCCTCCACTTTGGGAAC	CSARDHSTDNSPLHF	TCRBV20
ATCCAGCCTGCAAAGCTTGAGGACTCGGCCGTGTATCTCTGTGCCAGCAGCCCAACGGGCGGAAACTATGGCTACACCTTCGGTTCG	CASSPTGGNYGYTF	TCRBV11
ACAGTGACCAGTGCCCATCCTGAAGACAGCAGCTTCTACATCTGCAGTGCTAGAGCGCTAGACAATCAGCCCCAGCATTTTGGTGAT	CSARALDNQPQHF	TCRBV20
AATGTGAACGCCTTGTTGCTGGGGGACTCGGCCCTCTATCTCTGTGCCAGCAGCTTCGGGGGAAACACTGAAGCTTTCTTTGGACAA	CASSFGGNTEAFF	TCRBV05
ATCCTGAGGATCCAGCAGGTAGTGCGAGGAGATTCGGCAGCTTATTTCTGTGCCAGCTCACCGTCGGATGAGCAGTTCTTCGGGCCA	CASSPSDEQFF	TCRBV18
CTCAGGCTGCTGTCGGCTGCTCCCTCCCAGACATCTGTGTACTTCTGTGCCAGCAGCCCGGGCCCCTACGAGCAGTACTTCGGGCCG	CASSPGPYEQYF	TCRBV06
GCCCAAAAGAACCCGACAGCTTTCTATCTCTGTGCCAGTAGTATAGGGGGGGCTAGCACCTCTGGAAACACCATATATTTTGGAGAG	CASSIGGASTSGNTIYF	TCRBV19
TCGGCCCAAAAGAACCCGACAGCTTTCTATCTCTGTGCCAGTAGTATGACAGGGATCACCTATAATTCACCCCTCCACTTTGGGAAC	CASSMTGITYNSPLHF	TCRBV19
ATCCAGCGCACAGAGCGGGGGGACTCAGCCGTGTATCTCTGTGCCAGCAGCGTAACCGGGACAGTCAATGAGCAGTTCTTCGGGCCA	CASSVTGTVNEQFF	TCRBV07
ATCCAGCGCACAGAGCAGGGGGACTCGGCCATGTATCTCTGTGCCAGCAGCCAGGACAACCATTTCACTGAAGCTTTCTTTGGACAA	CASSQDNHFTEAFF	TCRBV07
AAGATCCAGCGCACACAGCAGGAGGACTCCGCCGTGTATCTCTGTGCCAGCAGTCGGGACTCCAATCAGCCCCAGCATTTTGGTGAT	CASSRDSNQPQHF	TCRBV07
CTACACACCCTGCAGCCAGAAGACTCGGCCCTGTATCTCTGCGCCAGCAGCCAATATCAGGGGGGGTATGAGCAGTTCTTCGGGCCA	CASSQYQGGYEQFF	TCRBV04

CTAGAGTCTGCCATCCCCAACCAGACAGCTCTTTACTTCTGTGCCACCAGTGATCCGCGAGGAGGAAACACCATATATTTTGGAGAG	CATSDPRGGNTIYF	TCRBV24
ACCAGTGCCCATCCTGAAGACAGCAGCTTCTACATCTGCAGTGCTAGCCCAAAGGACAGGGGGCGATACGAGCAGTACTTCGGGCCG	CSASPKDRGRYEQYF	TCRBV20
TCTGCTGTACCCTCTCAGACATCTGTGTACTTCTGTGCCAGCAGCCTCGCACAGGGCTCTCTCACAGATACGCAGTATTTTGGCCCA	CASSLAQGSLTDTQYF	TCRBV06
AAGATCCGGTCCACAAAGCTGGAGGACTCAGCCATGTACTTCTGTGCCAGCAGAAAAGACAGAAACACTGAAGCTTTCTTTGGACAA	CASRKDRNTEAFF	TCRBV02
CGCACAGAGCAGGGGGACTCGGCCATGTATCTCTGTGCCAGCAGCTCCCAGAAATGGGGATCCTACAATGAGCAGTTCTTCGGGCCA	CASSSQKWGSYNEQFF	TCRBV07
GAGTCGGCTGCTCCCTCCCAGACATCTGTGTACTTCTGTGCCAGCACGGGGAGGGGGAACAGCAATCAGCCCCAGCATTTTGGTGAT	CASTGRGNSNQPQHF	TCRBV06
CACGCCCTGCAGCCAGAAGACTCAGCCCTGTATCTCTGCGCCAGCAGCCTTCGGGGAGAGAACTACAATGAGCAGTTCTTCGGGCCA	CASSLRGENYNEQFF	TCRBV04
GAGTCGGCTGCTCCCTCCCAAACATCTGTGTACTTCTGTGCCAGCACCTTAAAAGGGACTATTTACAATGAGCAGTTCTTCGGGCCA	CASTLKGTIYNEQFF	TCRBV06
ATCCTGGAGTCGCCCAGCCCCAACCAGACCTCTCTGTACTTCTGTGCCAGCAGTTTACCGGGGACATCCAAAGCTTTCTTTGGACAA	CASSLPGTSKAFF	TCRBV27
GCTCCCTCCCAAACATCTGTGTACTTCTGTGCCAGCAGTTATGGGCCAGCGGATTTCAGAGCTAACTATGGCTACACCTTCGGTTCG	CASSYGPADFRANYGYTF	TCRBV06
AGGCTGCTGTCGGCTGCTCCCTCCCAGACATCTGTGTACTTCTGTGCCAGCAGTTACTCGGTAGTGCGGGGCTACACCTTCGGTTCG	CASSYSVVRGYTF	TCRBV06
AGCACCAACCAGACATCTATGTACCTCTGTGCCAGCAGACGCCTTCTCGGGCTGTTCAGGACTAATGAAAAACTGTTTTTTGGCAGT	CASRRLLGLFRTNEKLFF	TCRBV28
GAGTTGGCTGCTCCCTCCCAGACATCTGTGTACTTCTGTGCCAGCAGTCAACTAGCGGGGGTCTACAATGAGCAGTTCTTCGGGCCA	CASSQLAGVYNEQFF	TCRBV06
CACGCCCTGCAGCCAGAAGACTCAGCCCTGTATCTCTGCGCCAGCAGCCGAGGAGAGGGGGCAGAATATGGCTACACCTTCGGTTCG	CASSRGEGAEYGYTF	TCRBV04
AGGATCCAGCAGGTAGTGCGAGGAGATTCGGCAGCTTATTTCTGTGCCAGCTCACCAGGATACACCGGGGAGCTGTTTTTTGGAGAA	CASSPGYTGELFF	TCRBV18
GCTCCCTCCCAGACATCTGTGTACTTCTGTGCCAGCAGTTACTATGGGACAGGGGCTTCCACTAACTATGGCTACACCTTCGGTTCG	CASSYYGTGASTNYGYTF	TCRBV06
TTGGAGTCGGCTGCTCCCTCCCAAACATCTGTGTACTTCTGTGCCAGCTACGGTACGGGGGGTTTAGATACGCAGTATTTTGGCCCA	CASYGTGGLDTQYF	TCRBV06
TCCTTGGAGCTGGGGGACTCAGCCCTGTACTTCTGTGCCAGCAGCTTAGGCCGTCCGGGTGAACAAGAGACCCAGTACTTCGGGCCA	CASSLGRPGEQETQYF	TCRBV13
CTCAGGCTGGAGTTGGCTGCTCCCTCCCAGACATCTGTGTACTTCTGTGCCAGCAGTCCTGATTTCGGGGAGCTGTTTTTTGGAGAA	CASSPDFGELFF	TCRBV06
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ATCCAGCGCACAGAGCAGGGGGACTCGGCCATGTATCTCTGTGCCAGCAGCTCGCAGGCGGATAACTATGGCTACACCTTCGGTTCG	CASSSQADNYGYTF	TCRBV07
CGCACAGAGCAGGGGGACTCGGCCATGTATCTCTGTGCCAGCAGCCCACCAGGGAGTCGGATTGACGAAAAACTGTTTTTTGGCAGT	CASSPPGSRIDEKLFF	TCRBV07
ATCCAGCGCACAGAGCAGGGGGACTCGGCCATGTATCTCTGTGCCAGCAGCTTACTAGGACAGGCCTACGAGCAGTACTTCGGGCCG	CASSLLGQAYEQYF	TCRBV07
CTGAAGATCCGGTCCACAAAGCTGGAGGACTCAGCCATGTACTTCTGTGCCAGCAGTAATGGCCCCTACGAGCAGTACTTCGGGCCG	CASSNGPYEQYF	TCRBV02

AACGCCTTGTTGCTGGGGGACTCGGCCCTCTATCTCTGTGCCAGCAGCTTGGACGTCTTCACCTTGGATACGCAGTATTTTGGCCCA	CASSLDVFTLDTQYF	TCRBV05
CTGTCCCTAGAGTCTGCCATCCCCAACCAGACAGCTCTTTACTTCTGTGCCACCAGCGACTACCAAGAGACCCAGTACTTCGGGCCA	CATSDYQETQYF	TCRBV24
CTGGAGTCCGCCAGCACCAACCAGACATCTATGTACCTCTGTGCCAGCAGTTTTGTCCCGGCGGACTATGGCTACACCTTCGGTTCG	CASSFVPADYGYTF	TCRBV28
TTGGAGTCGGCTGCTCCCTCCCAAACATCTGTGTACTTCTGTGCCAGCAGCGTTGGGGGGGGGAATCAGCCCCAGCATTTTGGTGAT	CASSVGGGNQPQHF	TCRBV06
GCCCTGCAGCCAGAAGACTCAGCCCTGTATCTCTGCGCCAGCAGCCTACGAGGACTAGACCAGAAGGATGAGCAGTTCTTCGGGCCA	CASSLRGLDQKDEQFF	TCRBV04
CTGGAGTCCGCTACCAGCTCCCAGACATCTGTGTACTTCTGTGCCATCAGTGAAGGGGAGGGCAATCAGCCCCAGCATTTTGGTGAT	CAISEGEGNQPQHF	TCRBV10
GAGATCCAGCGCACAGAGCAGGGGGACTCGGCCATGTATCTCTGTGCCAGCGGGCCAGGGAGACCCCTTGAAGCTTTCTTTGGACAA	CASGPGRPLEAFF	TCRBV07
ATCCGGTCCACAAAGCTGGAGGACTCAGCCATGTACTTCTGTGCCAGCAGTCCCCGGGACAGGGGCTACGAGCAGTACTTCGGGCCG	CASSPRDRGYEQYF	TCRBV02
AAGATCCGGTCCACAAAGCTGGAGGACTCAGCCATGTACTTCTGTGCCAGCAGTGTGATTAGGACAGATACGCAGTATTTTGGCCCA	CASSVIRTDTQYF	TCRBV02
ACTCTGAAGATCCGGTCCACAAAGCTGGAGGACTCAGCCATGTACTTCTGTGCCAGCAGTGAAGTTCAGGTGCTGTTTTTTGGCAGT	CASSEVQVLFF	TCRBV02
AACGCCTTGGAGCTGGACGACTCGGCCCTGTATCTCTGTGCCAGCAGCTTGGTTGTTGTAGGTGTAGGTGAGCAGTTCTTCGGGCCA	CASSLVVVGVGEQFF	TCRBV05
CTTCACATCAATTCCCTGGAGCTTGGTGACTCTGCTGTGTATTTCTGTGCCAGCAGCCAGCGGAATGAAAAACTGTTTTTTGGCAGT	CASSQRNEKLFF	TCRBV03
AATTCCCTGGAGCTTGGTGACTCTGCTGTGTATTTCTGTGCCAGCAGCCAACAACTGACTAGTGGGGACGAGCAGTACTTCGGGCCG	CASSQQLTSGDEQYF	TCRBV03
CAGCGCACACAGCAGGAGGACTCGGCCGTGTATCTCTGTGCCAGCAGCTTAGAATCGGGAGACAGGGAGGAAAGAACCTTCGGTTCG	CASSLESGDREERTF	TCRBV07
ATCCGGTCCACAAAGCTGGAGGACTCAGCCATGTACTTCTGTGCCAGCAGCACCGGGACTCATACCTACGAGCAGTACTTCGGGCCG	CASSTGTHTYEQYF	TCRBV02
GTGAACGCCTTGTTGCTGGGGGACTCGGCCCTCTATCTCTGTGCCAGCAGCCCAGGGGGGGGTAATCAGCCCCAGCATTTTGGTGAT	CASSPGGGNQPQHF	TCRBV05
ATCCTGAGGATCCAGCAGGTAGTGCGAGGAGATTCGGCAGCTTATTTCTGTGCCAGCTCACCGACAGGGGAGCTGTTTTTTGGAGAA	CASSPTGELFF	TCRBV18
GAGTCGGCTGCTCCCTCCCAAACATCTGTGTACTTCTGTGCCAGCAGTCTTCGACAGGGAGGGAAAGAAAAACTGTTTTTTGGCAGT	CASSLRQGGKEKLFF	TCRBV06
ATCCAGCCCTCAGAACCCAGGGACTCAGCTGTGTACTTCTGTGCCAGCAGTTTTCAACTAGCCTACAATGAGCAGTTCTTCGGGCCA	CASSFQLAYNEQFF	TCRBV12
GAGATCCAGCGCACAGAGCAGGGGGACTCGGCCATGTATCTCTGTGCCAGCAGCCTACCCAGCTCCTACGAGCAGTACTTCGGGCCG	CASSLPSSYEQYF	TCRBV07
CGGTCCACAAAGCTGGAGGACTCAGCCATGTACTTCTGTGCCAGCAGTAGTAGGCGGGAGGGCCTCCACGAGCAGTACTTCGGGCCG	CASSSRREGLHEQYF	TCRBV02
CAGGGGGACTCGGCCATGTATCTCTGTGCCACCCAGTGGCAATCCGACGAGACTTTTATAGCCAAAAACATTCAGTACTTCGGCGCC	CATQWQSDETFIAKNIQYF	TCRBV07
CACGCCCTGCAGCCAGAAGACTCAGCCCTGTATCTCTGCGCCAGCAGCCTTAGCGGGAGGCCGGAAGAGACCCAGTACTTCGGGCCA	CASSLSGRPEETQYF	TCRBV04
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GCTGCTCCCTCCCAGACATCTGTGTACTTCTGTGCCAGCAGTGATCGTTACTTAGGGGGCGGTAATTCACCCCTCCACTTTGGGAAC	CASSDRYLGGGNSPLHF	TCRBV06
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ATCCAGCGCACAGAGCAGGGGGACTCGGCCATGTATCTCTGTGCCAGCAGCTTGGAGGGGGCCGATCAGCCCCAGCATTTTGGTGAT	CASSLEGADQPQHF	TCRBV07
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CGCACAGAGCAGGGGGACTCGGCCATGTATCTCTGTGCCAGCAGCTCCCGGACCGGGGGGGCGACCTATGGCTACACCTTCGGTTCG	CASSSRTGGATYGYTF	TCRBV07
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CACCTACACACCCTGCAGCCAGAAGACTCGGCCCTGTATCTCTGTGCCAGCAGCCAAGTTACAAATGAAAAACTGTTTTTTGGCAGT	CASSQVTNEKLFF	TCRBV04
GAGATCCAGTCCACGGAGTCAGGGGACACAGCACTGTATTTCTGTGCCAGCTCTAACGGACGGAACACTGAAGCTTTCTTTGGACAA	CASSNGRNTEAFF	TCRBV21
TCGGCTGCTCCCTCCCAAACATCTGTGTACTTCTGTGCCAGCAGTTACCCTCTCGGACAGTTCACAGATACGCAGTATTTTGGCCCA	CASSYPLGQFTDTQYF	TCRBV06
AATGTGAATGCCTTGTTGCTGGGGGACTCGGCCCTCTATCTCTGTGCCAGCAGCTTGACTAGCGGGTACGAGCAGTACTTCGGGCCG	CASSLTSGYEQYF	TCRBV05
GAGTCGGCTGCTCCCTCCCAAACATCTGTGTACTTCTGTGCCAGCAGTGACTACAGAAGAGCAATCTATGGCTACACCTTCGGTTCG	CASSDYRRAIYGYTF	TCRBV06
ATCCCCAACCAGACAGCTCTTTACTTCTGTGCCACCAGTGATTTGCATATGCTCGGACAGGGCCCTTACGAGCAGTACTTCGGGCCG	CATSDLHMLGQGPYEQYF	TCRBV24
CTGGAGGACTCAGCCATGTACTTCTGTGCCAGCAGTGAAGTTTGGTCCCTGCGGGGGGCCGACTACAATGAGCAGTTCTTCGGGCCA	CASSEVWSLRGADYNEQFF	TCRBV02
AGGCTGGAGTCGGCTGCTCCCTCCCAGACATCTGTGTACTTCTGTGCCAGCAACGACAGGGGAGATTCACCCCTCCACTTTGGGAAC	CASNDRGDSPLHF	TCRBV06
GCTCCCTCCCAGACATCTGTGTACTTCTGTGCCAGCAGTTATTTGAGGGTCCGGGCCAAACTAAATTCACCCCTCCACTTTGGGAAC	CASSYLRVRAKLNSPLHF	TCRBV06
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GTGCAGCCTGCAGAACTGGAGGATTCTGGAGTTTATTTCTGTGCCAGCAGCCAAGATCTGAGGTGGTATGGCTACACCTTCGGTTCG	CASSQDLRWYGYTF	TCRBV14
CTGACTGTGAGCAACATGAGCCCTGAAGACAGCAGCATATATCTCTGCAGCTTCCGCCGGGGGAGCACTGAAGCTTTCTTTGGACAA	CSFRRGSTEAFF	TCRBV29
ATCCAGCAGGTAGTGCGAGGAGATTCGGCAGCTTATTTCTGTGCCAGCTCACAAGGGGGAGTGACCGGGGAGCTGTTTTTTGGAGAA	CASSQGGVTGELFF	TCRBV18

ATCCGGTCCACAAAGCTGGAGGACTCAGCCATGTACTTCTGTGCCAGCACGGAGGGGACAACTAATGAAAAACTGTTTTTTGGCAGT	CASTEGTTNEKLFF	TCRBV02
ACATCGGCCCAAAAGAACCCGACAGCTTTCTATCTCTGTGCCAGTAGTCCTCTTGACAGTCGTAATTCACCCCTCCACTTTGGGAAC	CASSPLDSRNSPLHF	TCRBV19
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GCCCTGCAGCCAGAAGACTCAGCCCTGTATCTCTGCGCCAGCAGCCAAGACTTTCAGGGCGGAAACACTGAAGCTTTCTTTGGACAA	CASSQDFQGGNTEAFF	TCRBV04
AACGCCTTGTTGCTGGGGGACTCGGCCCTCTATCTCTGTGCCAGCAGCTTGGCCGGTCAGGTCCCCGTGGAGCAGTACTTCGGGCCG	CASSLAGQVPVEQYF	TCRBV05
ATCCGGTCCACAAAGCTGGAGGACTCAGCCATGTACTTCTGTGCCAGCAGTGTAGCTAGCGCCGACAATGAGCAGTTCTTCGGGCCA	CASSVASADNEQFF	TCRBV02
ATCCTGGAGTCGCCCAGCCCCAACCAGACCTCTCTGTACTTCTGTGCCAGCAGTTTAAGAGGAATCAATGGCTACACCTTCGGTTCG	CASSLRGINGYTF	TCRBV27
CTGGAGTCGCCCAGCCCCAACCAGACCTCTCTGTACTTCTGTGCCAGCAGTTCTTGGACAGGGGGACGGGAGCAGTACTTCGGGCCG	CASSSWTGGREQYF	TCRBV27
GAGTCGCCCAGCCCCAACCAGACCTCTCTGTACTTCTGTGCCAGCAGTTTCCGGGCCTGGACCGCCGGGGAGCTGTTTTTTGGAGAA	CASSFRAWTAGELFF	TCRBV27
CAGCCTGCAGAACTGGAGGATTCTGGAGTTTATTTCTGTGCCAGCAGCCATTGGGACAGGGGATCCTACGAGCAGTACTTCGGGCCG	CASSHWDRGSYEQYF	TCRBV14
GAGTCGGCTGCTCCCTCCCAGACATCTGTGTACTTCTGTGCCAGCAGTGAAGAAAGCAGGGGGGGCTATGGCTACACCTTCGGTTCG	CASSEESRGGYGYTF	TCRBV06
ATCCTGGAGTCGCCCAGCCCCAACCAGACCTCTCTGTACTTCTGTGCCAGCAGTCCCCTGACAACTATGAGCTACACCTTCGGTTCG	CASSPLTTMSYTF	TCRBV27
CTCACTCTGGAGTCCGCTACCAGCTCCCAGACATCTGTGTACTTCTGTGCCATCAGTGGGAGCTCCTACGAGCAGTACTTCGGGCCG	CAISGSSYEQYF	TCRBV10
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ATCCAGCCCTCAGAACCCAGGGACTCAGCTGTGTACTTCTGTGCCAGCAGTTTATTGGGGGCTAATTCACCCCTCCACTTTGGGAAC	CASSLLGANSPLHF	TCRBV12
AGCTCTCTGGAGCTGGGGGACTCAGCTTTGTATTTCTGTGCCAGCAGCGTAGCCCCGGGTAGAGCCTACGAGCAGTACTTCGGGCCG	CASSVAPGRAYEQYF	TCRBV09
CTGAGTTCTAAGAAGCTCCTCCTCAGTGACTCTGGCTTCTATCTCTGTGCCTGGAGTGCAGGGGGCCCTGAAGCTTTCTTTGGACAA	CAWSAGGPEAFF	TCRBV30
ATCCAGCCTGCAGAGCTTGGGGACTCGGCCATGTATCTCTGTGCCAGCAGACCAGAACAGGGGTCCGGTGGCTACACCTTCGGTTCG	CASRPEQGSGGYTF	TCRBV11
TTGGCGTCTGCTGTACCCTCTCAGACATCTGTGTACTTCTGTGCCAGCAGTGAGAGCTCTGGGGCCAACGTCCTGACTTTCGGGGCC	CASSESSGANVLTF	TCRBV06
CTGGAGTTGGCTGCTCCCTCCCAGACATCTGTGTACTTCTGTGCCAGCAGTGAGCCGGGGTTTGGAAACACCATATATTTTGGAGAG	CASSEPGFGNTIYF	TCRBV06
GAGTCAGCTACCCGCTCCCAGACATCTGTGTATTTCTGCGCCAGCAGGGCGGGACAGGGTGGTAATGAAAAACTGTTTTTTGGCAGT	CASRAGQGGNEKLFF	TCRBV10
GTAGTGCGAGGAGATTCGGCAGCTTATTTCTGTGCCAGCTCACCGCGGGGGACAGGAGATTTAACCGGGGAGCTGTTTTTTGGAGAA	CASSPRGTGDLTGELFF	TCRBV18
AGCCCCAACCAGACCTCTCTGTACTTCTGTGCCAGCAGTTTATATTCCCCCGGGACAGGGAGCACCGGGGAGCTGTTTTTTGGAGAA	CASSLYSPGTGSTGELFF	TCRBV27

TTGTTGCTGGGGGACTCGGCCCTCTATCTCTGTGCCAGCAGCTTGGAATTTAGCGGGGGGGCCTTGGATGAGCAGTTCTTCGGGCCA	CASSLEFSGGALDEQFF	TCRBV05
CTCAAGATCCAGCCTGCAAAGCTTGAGGACTCGGCCGTGTATCTCTGTGCCAGCAGCTTAGGGGACAACGAGCAGTACTTCGGGCCG	CASSLGDNEQYF	TCRBV11
AATGTGAACGCCTTGTTGCTGGGGGACTCGGCCCTCTATCTCTGTGCCAGCAGGTACCGACCGCAAGAGACCCAGTACTTCGGGCCA	CASRYRPQETQYF	TCRBV05
CTAAACCTGAGCTCTCTGGAGCTGGGGGACTCAGCTTTGTATTTCTGTGCCAGCAGCGTAGGGGAGGAGACCCAGTACTTCGGGCCA	CASSVGEETQYF	TCRBV09
AGCACCTTGGAGCTGGGGGACTCGGCCCTTTATCTTTGCGCCAGCAGCTTGGGAGGACAGGGGGGGAACGGCTACACCTTCGGTTCG	CASSLGGQGGNGYTF	TCRBV05
CTACACGCCCTGCAGCCAGAAGACTCAGCCCTGTATCTCTGCGCCAGCAGCCAACTGGACGGGCCCTACGAGCAGTACTTCGGGCCG	CASSQLDGPYEQYF	TCRBV04
GTGAACGCCTTGTTGCTGGGGGACTCGGCCCTGTATCTCTGTGCCAGCAGTCCCGGGGACAGGATCTATGGCTACACCTTCGGTTCG	CASSPGDRIYGYTF	TCRBV05
ATCCAGCAGGTAGTGCGAGGAGATTCGGCAGCTTATTTCTGTGCCAGCTCACCATCCGAGGGCTTAATAGGCTACACCTTCGGTTCG	CASSPSEGLIGYTF	TCRBV18
GTGACCAGTGCCCATCCTGAAGACAGCAGCTTCTACATCTGCAGTGCCCTCATCCCGTTCGGGAATCAGCCCCAGCATTTTGGTGAT	CSALIPFGNQPQHF	TCRBV20
CGCACAGAGCAGGGGGACTCGGCCATGTATCTCTGTGCCAGCGGGACTATGACACAGGGAGCCAAAAACATTCAGTACTTCGGCGCC	CASGTMTQGAKNIQYF	TCRBV07
CTGAGTTCTAAGAAGCTCCTTCTCAGTGACTCTGGCTTCTATCTCTGTGCCTGGAGTGAGGAAGGTTATGAGCAGTTCTTCGGGCCA	CAWSEEGYEQFF	TCRBV30
AACCTGAGCTCTCTGGAGCTGGGGGACTCAGCTTTGTATTTCTGTGCCAGCTCCTCGACTTGGTGGGATGAAGCTTTCTTTGGACAA	CASSSTWWDEAFF	TCRBV09
GTGAACGCCTTGTTGCTGGGGGACTCGGCCCTGTATCTCTGTGCCAGCAGCTTGCGACTACCTCCGGGCGAGCAGTACTTCGGGCCG	CASSLRLPPGEQYF	TCRBV05
AGGCTGGAGTTGGCTGCTCCCTCCCAGACATCTGTGTACTTCTGTGCCAGCAGCAGGGGACTAGGAGAGACCCAGTACTTCGGGCCA	CASSRGLGETQYF	TCRBV06
GTGACCAGTGCCCATCCTGAAGACAGCAGCTTCTACATCTGCAGTGCACGGACAGGGGCCTCTCCAAATGGCTACACCTTCGGTTCG	CSARTGASPNGYTF	TCRBV20
CGCACACAGCAGGAGGACTCCGCCGTGTATCTCTGTGCCAGCAGCTTCACGACGGAGCGGGAGAACAATGAGCAGTTCTTCGGGCCA	CASSFTTERENNEQFF	TCRBV07
CTGGAGTCGCCCAGCCCCAACCAGACCTCTCTGTACTTCTGTGCCAGCAGTTCCTGGGACAGGGATAACGAGCAGTACTTCGGGCCG	CASSSWDRDNEQYF	TCRBV27
GCCAGCACCAACCAGACATCTATGTACCTCTGTGCCAGCAGTTCCCCCTTTGGACTAGCGGATACAGATACGCAGTATTTTGGCCCA	CASSSPFGLADTDTQYF	TCRBV28
CAGCGGGACTCGGCCATGTATCGCTGTGCCAGCAGCTTAGCGGGCGGGAGCGGCCTCTCTGGGGCCAACGTCCTGACTTTCGGGGCC	CASSLAGGSGLSGANVLTF	TCRBV07
CTGGAGTCGCCCAGCCCCAACCAGACCTCTCTGTACTTCTGTGCCAGCAGTTCCGGAGGGGGAAAAAATGAGCAGTTCTTCGGGCCA	CASSSGGGKNEQFF	TCRBV27
ACAGTGACCAGTGCCCATCCTGAAGACAGCAGCTTCTACATCTGCAGTGCTGTGCTACGATTAGCAGATACGCAGTATTTTGGCCCA	CSAVLRLADTQYF	TCRBV20