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ctatttacaa cctccagtgg tttaggcagg accctgggaa aggactcaca tctctgttgc 240

ttattcagtc aagtcagaga gagcaaacaa gtggacgcct taatgcctcg ctggataaat 300

catcaggacg tagtacttta tacattgcag cttctcagcc tggtgactca gccacctacc 360

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<213> Homo sapiens

<220>
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ctccagacct gattctccag gagggagcca attccacgct gcggtgcaat ttttctgact 180

ctgtgaacaa tttgcagtgg tttcatcaaa acccttgggg acagctcatc aacctgtttt 240

acattccctc agggacaaaa cagaatggaa gattaagcgc cacgactgtc gctacggaac 300

gctacagctt attgtacatt tcctcttccc agaccacaga ctcaggcgtt tatttctgca 360

gagaccttgc ggccgtgtct tcgactagta gctcacctac ga 402

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accagcagca ggtgaaacaa agtcctcaat ctttgatagt ccagaaagga gggatttcaa 180

ttataaactg tgcttatgag aacactgcgt ttgactactt tccatggtac caacaattcc 240

ctgggaaagg ccctgcatta ttgatagcca tacgtccaga tgtgagtgaa aagaaagaag 300

gaagattcac aatctccttc aataaaagtg ccaagcagtt ctcattgcat atcatggatt 360

cccagcctgg agactcagcc acctacttct gcagagacct tgcggccgtg tcttcgacta 420

gtagctcacc tacga 435

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aaagtcctca gtcactgcat gttcaggagg gagacagcac caatttcacc tgcagcttcc 180

cttccagcaa tttttatgcc ttacactggt acagatggga aactgcaaaa agccccgagg 240

ccttgtttgt aatgacttta aatggggatg aaaagaagaa aggacgaata agtgccactc 300

ttaataccaa ggagggttac agctatttgt acatcaaagg atcccagcct gaagattcag 360

ccacatacct ctgcagagac cttgcggccg tgtcttcgac tagtagctca cctacga 417

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<212> DNA
<213> Homo sapiens

<220>
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accagcatgt acaagaagga gaggacttca ccacgtactg caattcctca actactttaa 180

gcaatataca gtggtataag caaaggcctg gtggacatcc cgtattcttg atacagttag 240

tgaagagtgg agaagtgaag aagcagaaaa gactgacatt tcagtttgga gaagcaaaaa 300

agaacagctc cctgcacatc acagccaccc agactacaga tgtaggaacc tacttctgca 360

gagaccttgc ggccgtgtct tcgactagta gctcacctac ga 402

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<211> 396
<212> DNA
<213> Homo sapiens

<220>
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ctgtgtttct gacctttgga actataattg atgctaagac cacccagccc ccctccatgg 120

attgcgctga aggaagagct gcaaacctgc cttgtaatca ctctaccatc agtggaaatg 180

agtatgtgta ttggtatcga cagattcact cccaggggcc acagtatatc attcatggtc 240

taaaaaacaa tgaaaccaat gaaatggcct ctctgatcat cacagaagat agaaagtcca 300

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ttgcggccgt gtcttcgact agtagctcac ctacga 396

<210> 35
<211> 396
<212> DNA
<213> Homo sapiens

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<400> 35
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agagtaacga agaagagcct gttcacttgc cttgtaacca ctccacaatc agtggaactg 180

attacataca ttggtatcga cagcttccct cccagggtcc agagtacgtg attcatggtc 240

ttacaagcaa tgtgaacaac agaatggcct ctctggcaat cgctgaggac agaaagtcca 300

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ttgcggccgt gtcttcgact agtagctcac ctacga 396

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<212> DNA
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<220>
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ttctaagcat ccaagaggga gaaaatctca ctgtgtactg caactcctca agtgtttttt 180

ccagcttaca atggtacaga caggagcctg gggaaggtcc tgtcctcctg gtgacagtag 240

ttacgggtgg agaagtgaag aagctgaaga gactaacctt tcagtttggt gatgcaagaa 300

aggacagttc tctccacatc actgcagccc agcctggtga tacaggcctc tacctctgca 360

gagaccttgc ggccgtgtct tcgactagta gctcacctac ga 402

<210> 37
<211> 429
<212> DNA
<213> Homo sapiens

<220>
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agcaagttaa gcaaaattca ccatccctga gcgtccagga aggaagaatt tctattctga 180

actgtgacta tactaacagc atgtttgatt atttcctatg gtacaaaaaa taccctgctg 240

aaggtcctac attcctgata tctataagtt ccattaagga taaaaatgaa gatggaagat 300

tcactgtttt cttaaacaaa agtgccaagc acctctctct gcacattgtg ccctcccagc 360

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cacctacga 429

<210> 38
<211> 408
<212> DNA
<213> Homo sapiens

<220>
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tttcaggcac cttgttgtgg cagttgacct gggtgagaag ccaacaacca gtgcagagtc 120

ctcaagccgt gatcctccga gaaggggaag atgctgtcat caactgcagt tcctccaagg 180

ctttatattc tgtacactgg tacaggcaga agcatggtga agcacccgtt ttcctgatga 240

tattactgaa gggtggagaa cagaagggtc atgaaaaaat atctgcttca tttaatgaaa 300

aaaagcagca aagctccctg taccttacgg cctcccagct cagttactca ggaacctact 360

tctgcagaga ccttgcggcc gtgtcttcga ctagtagctc acctacga 408

<210> 39
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<212> DNA
<213> Homo sapiens

<220>
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ctcagtcctt gatcgtccaa gagggaaaga atctcaccat aaactgcacg tcatcaaaga 180

cgttatatgg cttatactgg tataagcaaa agtatggtga aggtcttatc ttcttgatga 240

tgctacagaa aggtggggaa gagaaaagtc atgaaaagat aactgccaag ttggatgaga 300

aaaagcagca aagttccctg catatcacag cctcccagcc cagccatgca ggcatctacc 360

tctgcagaga ccttgcggcc gtgtcttcga ctagtagctc acctacga 408

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<211> 402
<212> DNA
<213> Homo sapiens

<220>
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ctatgtttat ccaggaagga gaagatgtct ccatgaactg cacttcttca agcatattta 180

acacctggct atggtacaag caggaacctg gggaaggtcc tgtcctcttg atagccttat 240

ataaggctgg tgaattgacc tcaaatggaa ggctgactgc tcagtttggt ataaccagaa 300

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gagaccttgc ggccgtgtct tcgactagta gctcacctac ga 402

<210> 41
<211> 411
<212> DNA
<213> Homo sapiens

<220>
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<400> 41
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gccctctatc tctggttgtc cacgagggag acaccgtaac tctcaattgc agttatgaag 180

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agaaagaact ttccagcatc ctgaacatca cagccaccca gaccggagac tcggccatct 360

acctctgcag agaccttgcg gccgtgtctt cgactagtag ctcacctacg a 411

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<211> 417
<212> DNA
<213> Homo sapiens

<220>
<223> TRAV38-1_BB_1

<400> 42
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gggcagtcgt ggtcagtacc tgtcttgaat ccggcatggc ccagacagtc actcagtctc 120

aaccagagat gtctgtgcag gaggcagaga ctgtgaccct gagttgcaca tatgacacca 180

gtgagaataa ttattatttg ttctggtaca agcagcctcc cagcaggcag atgattctcg 240

ttattcgcca agaagcttat aagcaacaga atgcaacgga gaatcgtttc tctgtgaact 300

tccagaaagc agccaaatcc ttcagtctca agatctcaga ctcacagctg ggggacactg 360

cgatgtattt ctgcagagac cttgcggccg tgtcttcgac tagtagctca cctacga 417

<210> 43
<211> 417
<212> DNA
<213> Homo sapiens

<220>
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<400> 43
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gtgagagtga ttattattta ttctggtaca agcagcctcc cagcaggcag atgattctcg 240

ttattcgcca agaagcttat aagcaacaga atgcaacaga gaatcgtttc tctgtgaact 300

tccagaaagc agccaaatcc ttcagtctca agatctcaga ctcacagctg ggggatgccg 360

cgatgtattt ctgcagagac cttgcggccg tgtcttcgac tagtagctca cctacga 417

<210> 44
<211> 402
<212> DNA
<213> Homo sapiens

<220>
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<400> 44
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tcctgagcat gcaggaggga aaaaactata ccatctactg caattattca accacttcag 180

acagactgta ttggtacagg caggatcctg ggaaaagtct ggaatctctg tttgtgttgc 240

tatcaaatgg agcagtgaag caggagggac gattaatggc ctcacttgat accaaagccc 300

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<211> 387

<212> DNA
<213> Homo sapiens

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taaccgtctc ggagggagca tctgtgacta tgaactgcac atacacatcc acggggtacc 180

ctacccttttt ctggtatgtg gaatacccca gcaaacctct gcagcttctt cagagagaga 240

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tgtcttcgac tagtagctca cctacga 387

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<211> 408
<212> DNA
<213> Homo sapiens

<220>
<223> TRAV41_BB_1

<400> 46
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agagtcctca gaacctgact gcccaggaag gagaatttat cacaatcaac tgcagttact 180

cggtaggaat aagtgcctta cactggctgc aacagcatcc aggaggaggc attgtttcct 240

tgtttatgct gagctcaggg aagaagaagc atggaagatt aattgccaca ataaacatac 300

aggaaaagca cagctccctg cacatcacag cctcccatcc cagagactct gccgtctaca 360

tctgcagaga ccttgcggcc gtgtcttcga ctagtagctc acctacga 408

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<211> 497
<212> DNA
<213> Homo sapiens

<220>
<223> TRAC1 cloning fragment

<400> 47
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actgtgctag acatgaggtc tatggacttc aagagcaaca gtgctgtggc ctggagcaac 240

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ttccccagcc cagaaagttc ctgtgatgtc aagctggtcg agaaaagctt tgaaacagat 360

acgaacctaa actttcaaaa cctgtcagtg attgggttcc gaatcctcct cctgaaagtg 420

gccgggttta atctgctcat gacgctgcgg ctgtggtcca gctgactagg tgtcttccct 480

atgctgaatc gatggtc 497

<210> 48
<211> 3210
<212> DNA
<213> Artificial Sequence

<220>
<223> V-C entry backbone transient

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tttattgcag cttataatgg ttacaaataa agcaatagca tcacaaattt cacaaataaa 180

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tcaatgggcg tggatagcgg tttgactcac ggggatttcc aagtctccac cccattgacg 3060

tcaatgggag tttgttttgg caccaaaatc aacgggactt tccaaaatgt cgtaacaact 3120

ccgccccatt gacgcaaatg ggcggtaggc gtgtacggtg ggaggtctat ataagcagag 3180

ctggtttagt gaaccgtcag atcaggtacc 3210

<210> 49
<211> 769
<212> DNA
<213> Homo sapiens

<220>
<223> V-C entry TRAV1-1_TRAC

<400> 49
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tgcacgtacc agacatctgg gttttatggg ctgtcctggt accagcaaca tgatggcgga 180

gcacccacat ttctttctta caatgctctg gatggtttgg aggagacagg tcgtttttct 240

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gactctgcct cttacttctg cagagacctt gcggccgcat aggtctcacc agaaccctga 360

ccctgccgtg taccagctga gagactctaa atccagtgac aagtctgtct gcctattcac 420

cgattttgat tctcaaacaa atgtgtcaca aagtaaggat tctgatgtgt atatcacaga 480

caaaactgtg ctagacatga ggtctatgga cttcaagagc aacagtgctg tggcctggag 540

caacaaatct gactttgcat gtgcaaacgc cttcaacaac agcattattc cagaggacac 600

cttcttcccc agcccagaaa gttcctgtga tgtcaagctg gtcgagaaaa gctttgaaac 660

agatacgaac ctaaactttc aaaacctgtc agtgattggg ttccgaatcc tcctcctgaa 720

agtggccggg tttaatctgc tcatgacgct gcggctgtgg tccagctga 769

<210> 50
<211> 769
<212> DNA
<213> Homo sapiens

<220>
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tgcacgtacc agacatctgg gttcaacggg ctgttctggt accagcaaca tgctggcgaa 180

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gactctgcct cttacctctg cagagacctt gcggccgcat aggtctcacc agaaccctga 360

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caaaactgtg ctagacatga ggtctatgga cttcaagagc aacagtgctg tggcctggag 540

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aagctttgaa acagatacga acctaaactt tcaaaacctg tcagtgattg ggttccgaat 720

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a 781

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cccaaccgag gcctccagtt ccttctgaaa tacatcacag gggataacct ggttaaaggc 240

agctatggct ttgaagctga atttaacaag agccaaacct ccttccacct gaagaaacca 300

tctgcccttg tgagcgactc cgctttgtac ttctgcagag accttgcggc cgcataggtc 360

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gaaaagcttt gaaacagata cgaacctaaa ctttcaaaac ctgtcagtga ttgggttccg 720

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ctga 784

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tgtagccaca acaacattgc tacaaatgat tatatcacgt ggtaccaaca gtttcccagc 180

caaggaccac gatttattat tcaaggatac aagacaaaag ttacaaacga agtggcctcc 240

ctgtttatcc ctgccgacag aaagtccagc actctgagcc tgccccgggt ttccctgagc 300

gacactgctg tgtactactg cagagacctt gcggccgcat aggtctcacc agaaccctga 360

ccctgccgtg taccagctga gagactctaa atccagtgac aagtctgtct gcctattcac 420

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caacaaatct gactttgcat gtgcaaacgc cttcaacaac agcattattc cagaggacac 600

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agatacgaac ctaaactttc aaaacctgtc agtgattggg ttccgaatcc tcctcctgaa 720

agtggccggg tttaatctgc tcatgacgct gcggctgtgg tccagctga 769

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<212> DNA
<213> Homo sapiens

<220>
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tccgttataa actgcactta cacagacagc tcctccacct acttatactg gtataagcaa 180

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tgctgtggcc tggagcaaca aatctgactt tgcatgtgca aacgccttca acaacagcat 600

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gaaaagcttt gaaacagata cgaacctaaa ctttcaaaac ctgtcagtga ttgggttccg 720

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ctga 784

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<212> DNA
<213> Homo sapiens

<220>
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gccaccctga cctgcaacta tacaaactat tccccagcat acttacagtg gtaccgacaa 180

gatccaggaa gaggccctgt tttcttgcta ctcatacgtg aaaatgagaa agaaaaaagg 240

aaagaaagac tgaaggtcac ctttgatacc acccttaaac agagtttgtt tcatatcaca 300

gcctcccagc ctgcagactc agctacctac ctctgcagag accttgcggc cgcataggtc 360

tcaccagaac cctgaccctg ccgtgtacca gctgagagac tctaaatcca gtgacaagtc 420

tgtctgccta ttcaccgatt ttgattctca aacaaatgtg tcacaaagta aggattctga 480

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tgctgtggcc tggagcaaca aatctgactt tgcatgtgca aacgccttca acaacagcat 600

tattccagag gacaccttct tccccagccc agaaagttcc tgtgatgtca agctggtcga 660

gaaaagcttt gaaacagata cgaacctaaa ctttcaaaac ctgtcagtga ttgggttccg 720

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ctga 784

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gttgcctcca tgagctgcac gtactctgtc agtcgtttta acaatttgca gtggtacagg 180

caaaatacag ggatgggtcc caaacaccta ttatccatgt attcagctgg atatgagaag 240

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ctgcctattc accgattttg attctcaaac aaatgtgtca caaagtaagg attctgatgt 480

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gagttgggat gcaactattc ctatggtgga actgttaatc tcttctggta tgtccagtac 180

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gaaaagcttt gaaacagata cgaacctaaa ctttcaaaac ctgtcagtga ttgggttccg 720

aatcctcctc ctgaaagtgg ccgggtttaa tctgctcatg acgctgcggc tgtggtccag 780

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gaaaagcttt gaaacagata cgaacctaaa ctttcaaaac ctgtcagtga ttgggttccg 720

aatcctcctc ctgaaagtgg ccgggtttaa tctgctcatg acgctgcggc tgtggtccag 780

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ctga 784

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aagctttgaa acagatacga acctaaactt tcaaaacctg tcagtgattg ggttccgaat 720

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a 781

<210> 63
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<212> DNA
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ccagaaccct gaccctgccg tgtaccagct gagagactct aaatccagtg acaagtctgt 420

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aactgcactc ttcaatgcaa ttatacagtg agccccttca gcaacttaag gtggtataag 180

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<220>
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actgtcgctt tcaactgtac ttacagcaac agtgcttctc agtctttctt ctggtacaga 180

caggattgca ggaaagaacc taagttgctg atgtccgtat actccagtgg taatgaagat 240

ggaaggttta cagcacagct caatagagcc agccagtata tttccctgct catcagagac 300

tccaagctca gtgattcagc cacctacctc tgcagagacc ttgcggccgc ataggtctca 360

ccagaaccct gaccctgccg tgtaccagct gagagactct aaatccagtg acaagtctgt 420

ctgcctattc accgattttg attctcaaac aaatgtgtca caaagtaagg attctgatgt 480

gtatatcaca gacaaaactg tgctagacat gaggtctatg gacttcaaga gcaacagtgc 540

tgtggcctgg agcaacaaat ctgactttgc atgtgcaaac gccttcaaca acagcattat 600

tccagaggac accttcttcc ccagcccaga aagttcctgt gatgtcaagc tggtcgagaa 660

aagctttgaa acagatacga acctaaactt tcaaaacctg tcagtgattg ggttccgaat 720

cctcctcctg aaagtggccg ggtttaatct gctcatgacg ctgcggctgt ggtccagctg 780

a 781

<210> 67
<211> 787
<212> DNA
<213> Homo sapiens

<220>
<223> V-C entry TRAV12-2_TRAC

<400> 67
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gccattgcct ctctcaactg cacttacagt gaccgaggtt cccagtcctt cttctggtac 180

agacaatatt ctgggaaaag ccctgagttg ataatgttca tatactccaa tggtgacaaa 240

gaagatggaa ggtttacagc acagctcaat aaagccagcc agtatgtttc tctgctcatc 300

agagactccc agcccagtga ttcagccacc tacctctgca gagaccttgc ggccgcatag 360

gtctcaccag aaccctgacc ctgccgtgta ccagctgaga gactctaaat ccagtgacaa 420

gtctgtctgc ctattcaccg attttgattc tcaaacaaat gtgtcacaaa gtaaggattc 480

tgatgtgtat atcacagaca aaactgtgct agacatgagg tctatggact tcaagagcaa 540

cagtgctgtg gcctggagca acaaatctga ctttgcatgt gcaaacgcct tcaacaacag 600

cattattcca gaggacacct tcttccccag cccagaaagt tcctgtgatg tcaagctggt 660

cgagaaaagc tttgaaacag atacgaacct aaactttcaa aacctgtcag tgattgggtt 720

ccgaatcctc ctcctgaaag tggccgggtt taatctgctc atgacgctgc ggctgtggtc 780

cagctga 787

<210> 68
<211> 787
<212> DNA
<213> Homo sapiens

<220>
<223> V-C entry TRAV12-3_TRAC

<400> 68
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gtttggagcc aacagaagga ggtggagcag gatcctggac cactcagtgt tccagaggga 120

gccattgttt ctctcaactg cacttacagc aacagtgctt ttcaatactt catgtggtac 180

agacagtatt ccagaaaagg ccctgagttg ctgatgtaca catactccag tggtaacaaa 240

gaagatggaa ggtttacagc acaggtcgat aaatccagca agtatatctc cttgttcatc 300

agagactcac agcccagtga ttcagccacc tacctctgca gagaccttgc ggccgcatag 360

gtctcaccag aaccctgacc ctgccgtgta ccagctgaga gactctaaat ccagtgacaa 420

gtctgtctgc ctattcaccg attttgattc tcaaacaaat gtgtcacaaa gtaaggattc 480

tgatgtgtat atcacagaca aaactgtgct agacatgagg tctatggact tcaagagcaa 540

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cattattcca gaggacacct tcttccccag cccagaaagt tcctgtgatg tcaagctggt 660

cgagaaaagc tttgaaacag atacgaacct aaactttcaa aacctgtcag tgattgggtt 720

ccgaatcctc ctcctgaaag tggccgggtt taatctgctc atgacgctgc ggctgtggtc 780

cagctga 787

<210> 69
<211> 781
<212> DNA
<213> Homo sapiens

<220>
<223> V-C entry TRAV13-1_TRAC

<400> 69
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aatggagaga atgtggagca gcatccttca accctgagtg tccaggaggg agacagcgct 120

gttatcaagt gtacttattc agacagtgcc tcaaactact tcccttggta taagcaagaa 180

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gtatatcaca gacaaaactg tgctagacat gaggtctatg gacttcaaga gcaacagtgc 540

tgtggcctgg agcaacaaat ctgactttgc atgtgcaaac gccttcaaca acagcattat 600

tccagaggac accttcttcc ccagcccaga aagttcctgt gatgtcaagc tggtcgagaa 660

aagctttgaa acagatacga acctaaactt tcaaaacctg tcagtgattg ggttccgaat 720

cctcctcctg aaagtggccg ggtttaatct gctcatgacg ctgcggctgt ggtccagctg 780

a 781

<210> 70
<211> 784
<212> DNA
<213> Homo sapiens

<220>
<223> V-C entry TRAV13-2_TRAC

<400> 70
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gaatctggaa aaggtcctca attcattata gacattcgtt caaatatgga caaaaggcaa 240

ggccaaagag tcaccgtttt attgaataag acagtgaaac atctctctct gcaaattgca 300

gctactcaac ctggagactc agctgtctac ttctgcagag accttgcggc cgcataggtc 360

tcaccagaac cctgaccctg ccgtgtacca gctgagagac tctaaatcca gtgacaagtc 420

tgtctgccta ttcaccgatt ttgattctca aacaaatgtg tcacaaagta aggattctga 480

tgtgtatatc acagacaaaa ctgtgctaga catgaggtct atggacttca agagcaacag 540

tgctgtggcc tggagcaaca aatctgactt tgcatgtgca aacgccttca acaacagcat 600

tattccagag gacaccttct tccccagccc agaaagttcc tgtgatgtca agctggtcga 660

gaaaagcttt gaaacagata cgaacctaaa ctttcaaaac ctgtcagtga ttgggttccg 720

aatcctcctc ctgaaagtgg ccgggtttaa tctgctcatg acgctgcggc tgtggtccag 780

ctga 784

<210> 71
<211> 790
<212> DNA
<213> Homo sapiens

<220>
<223> V-C entry TRAV14DV4_TRAC

<400> 71
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ggcattgccc agaagataac tcaaacccaa ccaggaatgt tcgtgcagga aaaggaggct 120

gtgactctgg actgcacata tgacaccagt gatcaaagtt atggtctatt ctggtacaag 180

cagcccagca gtggggaaat gatttttctt atttatcagg ggtcttatga cgagcaaaat 240

gcaacagaag gtcgctactc attgaatttc cagaaggcaa gaaaatccgc caaccttgtc 300

atctccgctt cacaactggg ggactcagca atgtatttct gcagagacct tgcggccgca 360

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ttctgatgtg tatatcacag acaaaactgt gctagacatg aggtctatgg acttcaagag 540

caacagtgct gtggcctgga gcaacaaatc tgactttgca tgtgcaaacg ccttcaacaa 600

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ggtcgagaaa agctttgaaa cagatacgaa cctaaacttt caaaacctgt cagtgattgg 720

gttccgaatc ctcctcctga aagtggccgg gtttaatctg ctcatgacgc tgcggctgtg 780

gtccagctga 790

<210> 72
<211> 772
<212> DNA
<213> Homo sapiens

<220>
<223> V-C entry TRAV16_TRAC

<400> 72
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agagcccaga gagtgactca gcccgagaag ctcctctctg tctttaaagg ggccccagtg 120

gagctgaagt gcaactattc ctattctggg agtcctgaac tcttctggta tgtccagtac 180

tccagacaac gcctccagtt actcttgaga cacatctcta gagagagcat caaaggcttc 240

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caccgatttt gattctcaaa caaatgtgtc acaaagtaag gattctgatg tgtatatcac 480

agacaaaact gtgctagaca tgaggtctat ggacttcaag agcaacagtg ctgtggcctg 540

gagcaacaaa tctgactttg catgtgcaaa cgccttcaac aacagcatta ttccagagga 600

caccttcttc cccagcccag aaagttcctg tgatgtcaag ctggtcgaga aaagctttga 660

aacagatacg aacctaaact ttcaaaacct gtcagtgatt gggttccgaa tcctcctcct 720

gaaagtggcc gggtttaatc tgctcatgac gctgcggctg tggtccagct ga 772

<210> 73
<211> 781
<212> DNA
<213> Homo sapiens

<220>
<223> V-C entry TRAV17_TRAC

<400> 73
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gtgaacagtc aacagggaga agaggatcct caggccttga gcatccagga gggtgaaaat 120

gccaccatga actgcagtta caaaactagt ataaacaatt tacagtggta tagacaaaat 180

tcaggtagag gccttgtcca cctaatttta atacgttcaa atgaaagaga gaaacacagt 240

ggaagattaa gagtcacgct tgacacttcc aagaaaagca gttccttgtt gatcacggct 300

tcccgggcag cagacactgc ttcttacttc tgcagagacc ttgcggccgc ataggtctca 360

ccagaaccct gaccctgccg tgtaccagct gagagactct aaatccagtg acaagtctgt 420

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tgtggcctgg agcaacaaat ctgactttgc atgtgcaaac gccttcaaca acagcattat 600

tccagaggac accttcttcc ccagcccaga aagttcctgt gatgtcaagc tggtcgagaa 660

aagctttgaa acagatacga acctaaactt tcaaaacctg tcagtgattg ggttccgaat 720

cctcctcctg aaagtggccg ggtttaatct gctcatgacg ctgcggctgt ggtccagctg 780

a 781

<210> 74
<211> 778
<212> DNA
<213> Homo sapiens

<220>
<223> V-C entry TRAV18_TRAC

<400> 74
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agtggagact cggttaccca gacagaaggc ccagttaccc tccctgagag ggcagctctg 120

acattaaact gcacttatca gtccagctat tcaacttttc tattctggta tgtccagtat 180

ctaaacaaag agcctgagct cctcctgaaa agttcagaaa accaggagac ggacagcaga 240

ggttttcagg ccagtcctat caagagtgac agttccttcc acctggagaa gccctcggtg 300

cagctgtcgg actctgccgt gtactactgc agagaccttg cggccgcata ggtctcacca 360

gaaccctgac cctgccgtgt accagctgag agactctaaa tccagtgaca agtctgtctg 420

cctattcacc gattttgatt ctcaaacaaa tgtgtcacaa agtaaggatt ctgatgtgta 480

tatcacagac aaaactgtgc tagacatgag gtctatggac ttcaagagca acagtgctgt 540

ggcctggagc aacaaatctg actttgcatg tgcaaacgcc ttcaacaaca gcattattcc 600

agaggacacc ttcttcccca gcccagaaag ttcctgtgat gtcaagctgg tcgagaaaag 660

ctttgaaaca gatacgaacc taaactttca aaacctgtca gtgattgggt tccgaatcct 720

cctcctgaaa gtggccgggt ttaatctgct catgacgctg cggctgtggt ccagctga 778

<210> 75
<211> 790
<212> DNA
<213> Homo sapiens

<220>
<223> V-C entry TRAV19_TRAC

<400> 75
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agcatggctc agaaggtaac tcaagcgcag actgaaattt ctgtggtgga gaaggaggat 120

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caaccaccaa gtggagaatt ggttttcctt attcgtcgga actcttttga tgagcaaaat 240

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caagtctgtc tgcctattca ccgattttga ttctcaaaca aatgtgtcac aaagtaagga 480

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caacagtgct gtggcctgga gcaacaaatc tgactttgca tgtgcaaacg ccttcaacaa 600

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ggtcgagaaa agctttgaaa cagatacgaa cctaaacttt caaaacctgt cagtgattgg 720

gttccgaatc ctcctcctga aagtggccgg gtttaatctg ctcatgacgc tgcggctgtg 780

gtccagctga 790

<210> 76
<211> 781
<212> DNA
<213> Homo sapiens

<220>
<223> V-C entry TRAV20_TRAC

<400> 76
gccaccatgg agaaaatgtt ggagtgtgca ttcatagtct tgtggcttca gcttggctgg 60

ttgagtggag aggaccaggt gacgcagagt cccgaggccc tgagactcca ggagggagag 120

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caagatcctg ggaaaggccc tgaattcctc ttcaccctgt attcagctgg ggaagaaaag 240

gagaaagaaa ggctaaaagc cacattaaca aagaaggaaa gctttctgca catcacagcc 300

cctaaacctg aggactcagc cacttatctc tgcagagacc ttgcggccgc ataggtctca 360

ccagaaccct gaccctgccg tgtaccagct gagagactct aaatccagtg acaagtctgt 420

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tgtggcctgg agcaacaaat ctgactttgc atgtgcaaac gccttcaaca acagcattat 600

tccagaggac accttcttcc ccagcccaga aagttcctgt gatgtcaagc tggtcgagaa 660

aagctttgaa acagatacga acctaaactt tcaaaacctg tcagtgattg ggttccgaat 720

cctcctcctg aaagtggccg ggtttaatct gctcatgacg ctgcggctgt ggtccagctg 780

a 781

<210> 77
<211> 781
<212> DNA
<213> Homo sapiens

<220>
<223> V-C entry TRAV21_TRAC

<400> 77
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agcaaacagg aggtgacgca gattcctgca gctctgagtg tcccagaagg agaaaacttg 120

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tgtggcctgg agcaacaaat ctgactttgc atgtgcaaac gccttcaaca acagcattat 600

tccagaggac accttcttcc ccagcccaga aagttcctgt gatgtcaagc tggtcgagaa 660

aagctttgaa acagatacga acctaaactt tcaaaacctg tcagtgattg ggttccgaat 720

cctcctcctg aaagtggccg ggtttaatct gctcatgacg ctgcggctgt ggtccagctg 780

a 781

<210> 78
<211> 775
<212> DNA
<213> Homo sapiens

<220>
<223> V-C entry TRAV22_TRAC

<400> 78
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gtgagaggaa tacaagtgga gcagagtcct ccagacctga ttctccagga gggagccaat 120

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ccctgaccct gccgtgtacc agctgagaga ctctaaatcc agtgacaagt ctgtctgcct 420

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cacagacaaa actgtgctag acatgaggtc tatggacttc aagagcaaca gtgctgtggc 540

ctggagcaac aaatctgact ttgcatgtgc aaacgccttc aacaacagca ttattccaga 600

ggacaccttc ttccccagcc cagaaagttc ctgtgatgtc aagctggtcg agaaaagctt 660

tgaaacagat acgaacctaa actttcaaaa cctgtcagtg attgggttcc gaatcctcct 720

cctgaaagtg gccgggttta atctgctcat gacgctgcgg ctgtggtcca gctga 775

<210> 79
<211> 808
<212> DNA
<213> Homo sapiens

<220>
<223> V-C entry TRAV23DV6_TRAC

<400> 79
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ttgatagtcc agaaaggagg gatttcaatt ataaactgtg cttatgagaa cactgcgttt 180

gactactttc catggtacca acaattccct gggaaaggcc ctgcattatt gatagccata 240

cgtccagatg tgagtgaaaa gaaagaagga agattcacaa tctccttcaa taaaagtgcc 300

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gtctatggac ttcaagagca acagtgctgt ggcctggagc aacaaatctg actttgcatg 600

tgcaaacgcc ttcaacaaca gcattattcc agaggacacc ttcttcccca gcccagaaag 660

ttcctgtgat gtcaagctgg tcgagaaaag ctttgaaaca gatacgaacc taaactttca 720

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catgacgctg cggctgtggt ccagctga 808

<210> 80
<211> 790
<212> DNA
<213> Homo sapiens

<220>
<223> V-C entry TRAV24_TRAC

<400> 80
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atcaaaggat cccagcctga agattcagcc acatacctct gcagagacct tgcggccgca 360

taggtctcac cagaaccctg accctgccgt gtaccagctg agagactcta aatccagtga 420

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caacagtgct gtggcctgga gcaacaaatc tgactttgca tgtgcaaacg ccttcaacaa 600

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ggtcgagaaa agctttgaaa cagatacgaa cctaaacttt caaaacctgt cagtgattgg 720

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gtccagctga 790

<210> 81
<211> 775
<212> DNA
<213> Homo sapiens

<220>
<223> V-C entry TRAV25_TRAC

<400> 81
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ggacaacagg taatgcaaat tcctcagtac cagcatgtac aagaaggaga ggacttcacc 120

acgtactgca attcctcaac tactttaagc aatatacagt ggtataagca aaggcctggt 180

ggacatcccg tattcttgat acagttagtg aagagtggag aagtgaagaa gcagaaaaga 240

ctgacatttc agtttggaga agcaaaaaag aacagctccc tgcacatcac agccacccag 300

actacagatg taggaaccta cttctgcaga gaccttgcgg ccgcataggt ctcaccagaa 360

ccctgaccct gccgtgtacc agctgagaga ctctaaatcc agtgacaagt ctgtctgcct 420

attcaccgat tttgattctc aaacaaatgt gtcacaaagt aaggattctg atgtgtatat 480

cacagacaaa actgtgctag acatgaggtc tatggacttc aagagcaaca gtgctgtggc 540

ctggagcaac aaatctgact ttgcatgtgc aaacgccttc aacaacagca ttattccaga 600

ggacaccttc ttccccagcc cagaaagttc ctgtgatgtc aagctggtcg agaaaagctt 660

tgaaacagat acgaacctaa actttcaaaa cctgtcagtg attgggttcc gaatcctcct 720

cctgaaagtg gccgggttta atctgctcat gacgctgcgg ctgtggtcca gctga 775

<210> 82
<211> 769
<212> DNA
<213> Homo sapiens

<220>
<223> V-C entry TRAV26-1_TRAC

<400> 82
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gctaagacca cccagccccc ctccatggat tgcgctgaag gaagagctgc aaacctgcct 120

tgtaatcact ctaccatcag tggaaatgag tatgtgtatt ggtatcgaca gattcactcc 180

caggggccac agtatatcat tcatggtcta aaaaacaatg aaaccaatga aatggcctct 240

ctgatcatca cagaagatag aaagtccagc accttgatcc tgccccacgc tacgctgaga 300

gacactgctg tgtactactg cagagacctt gcggccgcat aggtctcacc agaaccctga 360

ccctgccgtg taccagctga gagactctaa atccagtgac aagtctgtct gcctattcac 420

cgattttgat tctcaaacaa atgtgtcaca aagtaaggat tctgatgtgt atatcacaga 480

caaaactgtg ctagacatga ggtctatgga cttcaagagc aacagtgctg tggcctggag 540

caacaaatct gactttgcat gtgcaaacgc cttcaacaac agcattattc cagaggacac 600

cttcttcccc agcccagaaa gttcctgtga tgtcaagctg gtcgagaaaa gctttgaaac 660

agatacgaac ctaaactttc aaaacctgtc agtgattggg ttccgaatcc tcctcctgaa 720

agtggccggg tttaatctgc tcatgacgct gcggctgtgg tccagctga 769

<210> 83
<211> 769
<212> DNA
<213> Homo sapiens

<220>
<223> V-C entry TRAV26-2_TRAC

<400> 83
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gctaagacca cacagccaaa ttcaatggag agtaacgaag aagagcctgt tcacttgcct 120

tgtaaccact ccacaatcag tggaactgat tacatacatt ggtatcgaca gcttccctcc 180

cagggtccag agtacgtgat tcatggtctt acaagcaatg tgaacaacag aatggcctct 240

ctggcaatcg ctgaggacag aaagtccagt accttgatcc tgcaccgtgc taccttgaga 300

gatgctgctg tgtactactg cagagacctt gcggccgcat aggtctcacc agaaccctga 360

ccctgccgtg taccagctga gagactctaa atccagtgac aagtctgtct gcctattcac 420

cgattttgat tctcaaacaa atgtgtcaca aagtaaggat tctgatgtgt atatcacaga 480

caaaactgtg ctagacatga ggtctatgga cttcaagagc aacagtgctg tggcctggag 540

caacaaatct gactttgcat gtgcaaacgc cttcaacaac agcattattc cagaggacac 600

cttcttcccc agcccagaaa gttcctgtga tgtcaagctg gtcgagaaaa gctttgaaac 660

agatacgaac ctaaactttc aaaacctgtc agtgattggg ttccgaatcc tcctcctgaa 720

agtggccggg tttaatctgc tcatgacgct gcggctgtgg tccagctga 769

<210> 84
<211> 775
<212> DNA
<213> Homo sapiens

<220>
<223> V-C entry TRAV27_TRAC

<400> 84
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acccagctgc tggagcagag ccctcagttt ctaagcatcc aagagggaga aaatctcact 120

gtgtactgca actcctcaag tgtttttttcc agcttacaat ggtacagaca ggagcctggg 180

gaaggtcctg tcctcctggt gacagtagtt acgggtggag aagtgaagaa gctgaagaga 240

ctaacctttc agtttggtga tgcaagaaag gacagttctc tccacatcac tgcagcccag 300

cctggtgata caggcctcta cctctgcaga gaccttgcgg ccgcataggt ctcaccagaa 360

ccctgaccct gccgtgtacc agctgagaga ctctaaatcc agtgacaagt ctgtctgcct 420

attcaccgat tttgattctc aaacaaatgt gtcacaaagt aaggattctg atgtgtatat 480

cacagacaaa actgtgctag acatgaggtc tatggacttc aagagcaaca gtgctgtggc 540

ctggagcaac aaatctgact ttgcatgtgc aaacgccttc aacaacagca ttattccaga 600

ggacaccttc ttccccagcc cagaaagttc ctgtgatgtc aagctggtcg agaaaagctt 660

tgaaacagat acgaacctaa actttcaaaa cctgtcagtg attgggttcc gaatcctcct 720

cctgaaagtg gccgggttta atctgctcat gacgctgcgg ctgtggtcca gctga 775

<210> 85
<211> 802
<212> DNA
<213> Homo sapiens

<220>
<223> V-C entry TRAV29DV5_TRAC

<400> 85
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gtaaacagtc aacagaagaa tgatgaccag caagttaagc aaaattcacc atccctgagc 120

gtccaggaag gaagaatttc tattctgaac tgtgactata ctaacagcat gtttgattat 180

ttcctatggt acaaaaaata ccctgctgaa ggtcctacat tcctgatatc tataagttcc 240

attaaggata aaaatgaaga tggaagattc actgttttct taaacaaaag tgccaagcac 300

ctctctctgc acattgtgcc ctcccagcct ggagactctg cagtgtactt ctgcagagac 360

cttgcggccg cataggtctc accagaaccc tgaccctgcc gtgtaccagc tgagagactc 420

taaatccagt gacaagtctg tctgcctatt caccgatttt gattctcaaa caaatgtgtc 480

acaaagtaag gattctgatg tgtatatcac agacaaaact gtgctagaca tgaggtctat 540

ggacttcaag agcaacagtg ctgtggcctg gagcaacaaa tctgactttg catgtgcaaa 600

cgccttcaac aacagcatta ttccagagga caccttcttc cccagcccag aaagttcctg 660

tgatgtcaag ctggtcgaga aaagctttga aacagatacg aacctaaact ttcaaaacct 720

gtcagtgatt gggttccgaa tcctcctcct gaaagtggcc gggtttaatc tgctcatgac 780

gctgcggctg tggtccagct ga 802

<210> 86
<211> 781
<212> DNA
<213> Homo sapiens

<220>
<223> V-C entry TRAV30_TRAC

<400> 86
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gtgagaagcc aacaaccagt gcagagtcct caagccgtga tcctccgaga aggggaagat 120

gctgtcatca actgcagttc ctccaaggct ttatattctg tacactggta caggcagaag 180

catggtgaag cacccgtttt cctgatgata ttactgaagg gtggagaaca gaagggtcat 240

gaaaaaatat ctgcttcatt taatgaaaaa aagcagcaaa gctccctgta ccttacggcc 300

tcccagctca gttactcagg aacctacttc tgcagagacc ttgcggccgc ataggtctca 360

ccagaaccct gaccctgccg tgtaccagct gagagactct aaatccagtg acaagtctgt 420

ctgcctattc accgattttg attctcaaac aaatgtgtca caaagtaagg attctgatgt 480

gtatatcaca gacaaaactg tgctagacat gaggtctatg gacttcaaga gcaacagtgc 540

tgtggcctgg agcaacaaat ctgactttgc atgtgcaaac gccttcaaca acagcattat 600

tccagaggac accttcttcc ccagcccaga aagttcctgt gatgtcaagc tggtcgagaa 660

aagctttgaa acagatacga acctaaactt tcaaaacctg tcagtgattg ggttccgaat 720

cctcctcctg aaagtggccg ggtttaatct gctcatgacg ctgcggctgt ggtccagctg 780

a 781

<210> 87
<211> 781
<212> DNA
<213> Homo sapiens

<220>
<223> V-C entry TRAV34_TRAC

<400> 87
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gtcagtagcc aagaactgga gcagagtcct cagtccttga tcgtccaaga gggaaagaat 120

ctcaccataa actgcacgtc atcaaagacg ttatatggct tatactggta taagcaaaag 180

tatggtgaag gtcttatctt cttgatgatg ctacagaaag gtggggaaga gaaaagtcat 240

gaaaagataa ctgccaagtt ggatgagaaa aagcagcaaa gttccctgca tatcacagcc 300

tcccagccca gccatgcagg catctacctc tgcagagacc ttgcggccgc ataggtctca 360

ccagaaccct gaccctgccg tgtaccagct gagagactct aaatccagtg acaagtctgt 420

ctgcctattc accgattttg attctcaaac aaatgtgtca caaagtaagg attctgatgt 480

gtatatcaca gacaaaactg tgctagacat gaggtctatg gacttcaaga gcaacagtgc 540

tgtggcctgg agcaacaaat ctgactttgc atgtgcaaac gccttcaaca acagcattat 600

tccagaggac accttcttcc ccagcccaga aagttcctgt gatgtcaagc tggtcgagaa 660

aagctttgaa acagatacga acctaaactt tcaaaacctg tcagtgattg ggttccgaat 720

cctcctcctg aaagtggccg ggtttaatct gctcatgacg ctgcggctgt ggtccagctg 780

a 781

<210> 88
<211> 775
<212> DNA
<213> Homo sapiens

<220>
<223> V-C entry TRAV35_TRAC

<400> 88
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ggtcaacagc tgaatcagag tcctcaatct atgtttatcc aggaaggaga agatgtctcc 120

atgaactgca cttcttcaag catatttaac acctggctat ggtacaagca ggaacctggg 180

gaaggtcctg tcctcttgat agccttatat aaggctggtg aattgacctc aaatggaagg 240

ctgactgctc agtttggtat aaccagaaag gacagcttcc tgaatatctc agcatccata 300

cctagtgatg taggcatcta cttctgcaga gaccttgcgg ccgcataggt ctcaccagaa 360

ccctgaccct gccgtgtacc agctgagaga ctctaaatcc agtgacaagt ctgtctgcct 420

attcaccgat tttgattctc aaacaaatgt gtcacaaagt aaggattctg atgtgtatat 480

cacagacaaa actgtgctag acatgaggtc tatggacttc aagagcaaca gtgctgtggc 540

ctggagcaac aaatctgact ttgcatgtgc aaacgccttc aacaacagca ttattccaga 600

ggacaccttc ttccccagcc cagaaagttc ctgtgatgtc aagctggtcg agaaaagctt 660

tgaaacagat acgaacctaa actttcaaaa cctgtcagtg attgggttcc gaatcctcct 720

cctgaaagtg gccgggttta atctgctcat gacgctgcgg ctgtggtcca gctga 775

<210> 89
<211> 784
<212> DNA
<213> Homo sapiens

<220>
<223> V-C entry TRAV36DV7_TRAC

<400> 89
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gtgagcagtg aagataaggt ggtacaaagc cctctatctc tggttgtcca cgagggagac 120

accgtaactc tcaattgcag ttatgaagtg actaactttc gaagcctact atggtacaag 180

caggaaaaga aagctcccac atttctattt atgctaactt caagtggaat tgaaaagaag 240

tcaggtagac taagtagcat attagataag aaagaacttt ccagcatcct gaacatcaca 300

gccacccaga ccggagactc ggccatctac ctctgcagag accttgcggc cgcataggtc 360

tcaccagaac cctgaccctg ccgtgtacca gctgagagac tctaaatcca gtgacaagtc 420

tgtctgccta ttcaccgatt ttgattctca aacaaatgtg tcacaaagta aggattctga 480

tgtgtatatc acagacaaaa ctgtgctaga catgaggtct atggacttca agagcaacag 540

tgctgtggcc tggagcaaca aatctgactt tgcatgtgca aacgccttca acaacagcat 600

tattccagag gacaccttct tccccagccc agaaagttcc tgtgatgtca agctggtcga 660

gaaaagcttt gaaacagata cgaacctaaa ctttcaaaac ctgtcagtga ttgggttccg 720

aatcctcctc ctgaaagtgg ccgggtttaa tctgctcatg acgctgcggc tgtggtccag 780

ctga 784

<210> 90
<211> 790
<212> DNA
<213> Homo sapiens

<220>
<223> V-C entry TRAV38-1_TRAC

<400> 90
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ggcatggccc agacagtcac tcagtctcaa ccagagatgt ctgtgcagga ggcagagact 120

gtgaccctga gttgcacata tgacaccagt gagaataatt attatttgtt ctggtacaag 180

cagcctccca gcaggcagat gattctcgtt attcgccaag aagcttataa gcaacagaat 240

gcaacggaga atcgtttctc tgtgaacttc cagaaagcag ccaaatcctt cagtctcaag 300

atctcagact cacagctggg ggacactgcg atgtatttct gcagagacct tgcggccgca 360

taggtctcac cagaaccctg accctgccgt gtaccagctg agagactcta aatccagtga 420

caagtctgtc tgcctattca ccgattttga ttctcaaaca aatgtgtcac aaagtaagga 480

ttctgatgtg tatatcacag acaaaactgt gctagacatg aggtctatgg acttcaagag 540

caacagtgct gtggcctgga gcaacaaatc tgactttgca tgtgcaaacg ccttcaacaa 600

cagcattatt ccagaggaca ccttcttccc cagcccagaa agttcctgtg atgtcaagct 660

ggtcgagaaa agctttgaaa cagatacgaa cctaaacttt caaaacctgt cagtgattgg 720

gttccgaatc ctcctcctga aagtggccgg gtttaatctg ctcatgacgc tgcggctgtg 780

gtccagctga 790

<210> 91
<211> 790
<212> DNA
<213> Homo sapiens

<220>
<223> V-C entry TRAV38-2DV8_TRAC

<400> 91
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agcatggctc agacagtcac tcagtctcaa ccagagatgt ctgtgcagga ggcagagacg 120

gtgaccctga gctgcacata tgacaccagt gagagtgatt attatttatt ctggtacaag 180

cagcctccca gcaggcagat gattctcgtt attcgccaag aagcttataa gcaacagaat 240

gcaacagaga atcgtttctc tgtgaacttc cagaaagcag ccaaatcctt cagtctcaag 300

atctcagact cacagctggg ggatgccgcg atgtatttct gcagagacct tgcggccgca 360

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caacagtgct gtggcctgga gcaacaaatc tgactttgca tgtgcaaacg ccttcaacaa 600

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ggtcgagaaa agctttgaaa cagatacgaa cctaaacttt caaaacctgt cagtgattgg 720

gttccgaatc ctcctcctga aagtggccgg gtttaatctg ctcatgacgc tgcggctgtg 780

gtccagctga 790

<210> 92
<211> 775
<212> DNA
<213> Homo sapiens

<220>
<223> V-C entry TRAV39_TRAC

<400> 92
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atctactgca attattcaac cacttcagac agactgtatt ggtacaggca ggatcctggg 180

aaaagtctgg aatctctgtt tgtgttgcta tcaaatggag cagtgaagca ggagggacga 240

ttaatggcct cacttgatac caaagcccgt ctcagcaccc tccacatcac agctgccgtg 300

catgacctct ctgccaccta cttctgcaga gaccttgcgg ccgcataggt ctcaccagaa 360

ccctgaccct gccgtgtacc agctgagaga ctctaaatcc agtgacaagt ctgtctgcct 420

attcaccgat tttgattctc aaacaaatgt gtcacaaagt aaggattctg atgtgtatat 480

cacagacaaa actgtgctag acatgaggtc tatggacttc aagagcaaca gtgctgtggc 540

ctggagcaac aaatctgact ttgcatgtgc aaacgccttc aacaacagca ttattccaga 600

ggacaccttc ttccccagcc cagaaagttc ctgtgatgtc aagctggtcg agaaaagctt 660

tgaaacagat acgaacctaa actttcaaaa cctgtcagtg attgggttcc gaatcctcct 720

cctgaaagtg gccgggttta atctgctcat gacgctgcgg ctgtggtcca gctga 775

<210> 93
<211> 760
<212> DNA
<213> Homo sapiens

<220>
<223> V-C entry TRAV40_TRAC

<400> 93
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agcaattcag tcaagcagac gggccaaata accgtctcgg agggagcatc tgtgactatg 120

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tgactttgca tgtgcaaacg ccttcaacaa cagcattatt ccagaggaca ccttcttccc 600

cagcccagaa agttcctgtg atgtcaagct ggtcgagaaa agctttgaaa cagatacgaa 660

cctaaacttt caaaacctgt cagtgattgg gttccgaatc ctcctcctga aagtggccgg 720

gtttaatctg ctcatgacgc tgcggctgtg gtccagctga 760

<210> 94
<211> 781
<212> DNA
<213> Homo sapiens

<220>
<223> V-C entry TRAV41_TRAC

<400> 94
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gtaagtgccg ccaaaaatga agtggagcag agtcctcaga acctgactgc ccaggaagga 120

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aagctttgaa acagatacga acctaaactt tcaaaacctg tcagtgattg ggttccgaat 720

cctcctcctg aaagtggccg ggtttaatct gctcatgacg ctgcggctgt ggtccagctg 780

a 781

<210> 95
<211> 53
<212> DNA
<213> Artificial Sequence

<220>
<223> TRAJ_receiving_F1

<400> 95
aattcggtct cgaagtcttc tgcggccgct gaagacacta tccagtgaga ccc 53

<210> 96
<211> 53
<212> DNA
<213> Artificial Sequence

<220>
<223> TRAJ_receiving_R1

<400> 96
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<210> 97
<211> 2308
<212> DNA
<213> Artificial Sequence

<220>

<223> J donor backbone

<400> 97
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gtgccagctg cattaacatg gtcatagctg tttccttgcg tattgggcgc tctccgcttc 120

ctcgctcact gactcgctgc gctcggtcgt tcgggtaaag cctggggtgc ctaatgagca 180

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aagaatagac cgagataggg ttgagtggcc gctacagggc gctcccattc gccattcagg 2100

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<210> 98
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tctgcggccg ctgaagacac tatccagtga gaccctcgag ctgggcctca tgggccttcc 240

gctcactgcc cgctttccag tcgggaaacc tgtcgtgcca gctgcattaa catggtcata 300

gctgtttcct tgcgtattgg gcgctctccg cttcctcgct cactgactcg ctgcgctcgg 360

tcgttcgggt aaagcctggg gtgcctaatg agcaaaaggc cagcaaaagg ccaggaaccg 420

taaaaaggcc gcgttgctgg cgtttttcca taggctccgc ccccctgacg agcatcacaa 480

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tccccctgga agctccctcg tgcgctctcc tgttccgacc ctgccgctta ccggatacct 600

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cgaccgctgc gccttatccg gtaactatcg tcttgagtcc aacccggtaa gacacgactt 780

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tatccagtga gacc 74

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tatccagtga gacc 74

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ccagtgagac c 71

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ccagtgagac c 71

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tgatatccag tgagacc 77

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gtgagacc 68

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tatccagtga gacc 74

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ccagtgagac c 71

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aaatatccag tgagacc 77

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ccagtgagac c 71

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gtgagacc 68

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gtgagacc 68

<210> 410
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aaatatccag tgagacc 77

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gtgagacc 68

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ccagtgagac c 71

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tatccagtga gacc 74

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tatccagtga gacc 74

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tatccagtga gacc 74

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<220>
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aaatatccag tgagacc 77

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tatccagtga gacc 74

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<220>
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ctatatccag tgagacc 77

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tatccagtga gacc 74

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<223> J Donor_Long_TRAJ48

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tatccagtga gacc 74

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gtgagacc 68

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tatccagtga gacc 74

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aatacctggt cacacagatg ggaaacgaca agtccattaa atgtgaacaa aatctgggcc 180

atgatactat gtattggtat aaacaggact ctaagaaatt tctgaagata atgtttagct 240

acaataataa ggagctcatt ataaatgaaa cagttccaaa tcgcttctca cctaaatctc 300

cagacaaagc tcacttaaat cttcacatca attccctgga gcttggtgac tctgctgtgt 360

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aacacctggt catgggaatg acaaataaga agtctttgaa atgtgaacaa catatggggc 180

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acagctatga gaaactctct ataaatgaaa gtgtgccaag tcgcttctca cctgaatgcc 300

ccaacagctc tctcttaaac cttcacctac acgccctgca gccagaagat tcagccctgt 360

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gacacctggt catgggaatg acaaataaga agtctttgaa atgtgaacaa catctggggc 180

ataacgctat gtattggtac aagcaaagtg ctaagaagcc actggagctc atgtttgtct 240

acaactttaa agaacagact gaaaacaaca gtgtgccaag tcgcttctca cctgaatgcc 300

ccaacagctc tcacttattc cttcacctac acaccctgca gccagaagat tcggccctgt 360

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gacacctggt catgggaatg acaaataaga agtctttgaa atgtgaacaa catctgggtc 180

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acagtcttga agaacgggtt gaaaacaaca gtgtgccaag tcgcttctca cctgaatgcc 300

ccaacagctc tcacttattc cttcacctac acaccctgca gccagaagat tcggccctgt 360

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gatatctgat caaaacgaga ggacagcaag tgacactgag ctgctcccct atctctgggc 180

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acttcagtga gacacagaga aacaaaggaa acttccctgg tcgattctca gggcgccagt 300

tctctaactc tcgctctgag atgaatgtga gcaccttgga gctgggggac tcggcccttt 360

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tccctaatta tagctctgag ctgaatgtga acgccttgga gctggacgac tcggccctgt 360

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caaccacaga ggatttcccg ctcaggctgg agttggctgc tccctcccag acatctgtgt 360

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gcatccctga tcgattctca gctcaacagt tcagtgacta tcattctgaa ctgaacatga 360

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gccacagcgt aatagagaag ggccagactg tgactctgag atgtgaccca atttctggac 180

atgataatct ttattggtat cgacgtgtta tgggaaaaga aataaaattt ctgttacatt 240

ttgtgaaaga gtctaaacag gatgagtccg gtatgcccaa caatcgattc ttagctgaaa 300

ggactggagg gacgtattct actctgaagg tgcagcctgc agaactggag gattctggag 360

tttacttttg cagagacctt gcggccgtgt cttccgacgc tgacagtgta gata 414

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<212> DNA
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<400> 471
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gataccaggt tacccagttt ggaaagccag tgaccctgag ttgttctcag actttgaacc 180

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cgaacacttc tttctgcttt cttgacatcc gctcaccagg cctgggggac acagccatgt 360

acctttgcag agaccttgcg gccgtgtctt ccgacgctga cagtgtagat a 411

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<212> DNA
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gacacctggt caggaggagg ggacaggagg caagactgag atgcagccca atgaaaggac 180

acagtcatgt ttactggtat cggcagctcc cagaggaagg tctgaaattc atggtttatc 240

tccagaaaga aaatatcata gatgagtcag gaatgccaaa ggaacgattt tctgctgaat 300

ttcccaaaga gggccccagc atcctgagga tccagcaggt agtgcgagga gattcggcag 360

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agtacctgtt cagaaaggaa ggacagaatg tgaccctgag ttgtgaacag aatttgaacc 180

acgatgccat gtactggtac cgacaggacc cagggcaagg gctgagattg atctactact 240

cacagatagt aaatgacttt cagaaaggag atatagctga agggtacagc gtctctcggg 300

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<211> 405
<212> DNA
<213> Homo sapiens

<220>
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<400> 475
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agagtggaac ctctgtgaag atcgagtgcc gttccctgga ctttcaggcc acaactatgt 180

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tgaccttgtc cactctgaca gtgaccagtg cccatcctga agatagcagc ttctacattt 360

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<211> 411
<212> DNA
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ggaataggat cacaaagaca ggaaagagga ttatgctgga atgttctcag actaagggtc 180

atgatagaat gtactggtat cgacaagacc caggactggg cctacggttg atctattact 240

cctttgatgt caaagatata aacaaaggag agatctctga tggatacagt gtctctcgac 300

aggcacaggc taaattctcc ctgtccctag agtctgccat ccccaaccag acagctcttt 360

acttttgcag agaccttgcg gccgtgtctt ccgacgctga cagtgtagat a 411

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<212> DNA
<213> Homo sapiens

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<400> 477
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taaggacgga gcattttccc ctgaccctgg agtctgccag gccctcacat acctctcagt 360

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<220>
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<400> 478
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gatacctcat cacagtgact ggaaagaagt taacagtgac ttgttctcag aatatgaacc 180

atgagtatat gtcctggtat cgacaagacc cagggctggg cttaaggcag atctactatt 240

caatgaatgt tgaggtgact gataagggag atgttcctga agggtacaaa gtctctcgaa 300

aagagaagag gaatttcccc ctgatcctgg agtcgcccag ccccaaccag acctctctgt 360

actttgcag agaccttgcg gccgtgtctt ccgacgctga cagtgtagat a 411

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<211> 411
<212> DNA
<213> Homo sapiens

<220>
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<400> 479
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<211> 405
<212> DNA
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tctggtaccg tcagcaacct ggacagagcc tgacactgat cgcaactgca aatcagggct 240

ctgaggccac atatgagagt ggatttgtca ttgacaagtt tcccatcagc cgcccaaacc 300

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<210> 482
<211> 595
<212> DNA
<213> Homo sapiens

<220>
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gcctggccac aggcttcttc cccgaccacg tggagctgag ctggtgggtg aatgggaagg 180

aggtgcacag tggggtcagc acagacccgc agcccctcaa ggagcagccc gccctcaatg 240

actccagata ctgcctgagc agccgcctga gggtgtcggc caccttctgg cagaaccccc 300

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tcctgctagg gaaggccacc ctgtatgctg tgctggtcag cgcccttgtg ttgatggcca 540

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<210> 483
<211> 601
<212> DNA
<213> Homo sapiens

<220>
<223> TRBC2 cloning fragment

<400> 483
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gcctggccac aggcttctac cccgaccacg tggagctgag ctggtgggtg aatgggaagg 180

aggtgcacag tggggtcagc acagacccgc agcccctcaa ggagcagccc gccctcaatg 240

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gtggcttcac ctccgagtct taccagcaag gggtcctgtc tgccaccatc ctctatgaga 480

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tggtcaagag aaaggattcc agaggctagc taggtgtctt cgctacactg atccgatggt 600

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<211> 891
<212> DNA
<213> Homo sapiens

<220>
<223> V-C entry TRBV2_TRBC2

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atcttgcgct gtgtccccat ctctaatcac ttatacttct attggtacag acaaatcttg 180

gggcagaaag tcgagtttct ggtttccttt tataataatg aaatctcaga gaagtctgaa 240

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gccaccttct ggcagaaccc ccgcaaccac ttccgctgtc aagtccagtt ctacgggctc 660

tcggagaatg acgagtggac ccaggatagg gccaaacccg tcacccagat cgtcagcgcc 720

gaggcctggg gtagagcaga ctgtggcttc acctccgagt cttaccagca aggggtcctg 780

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<210> 485
<211> 888
<212> DNA
<213> Homo sapiens

<220>
<223> V-C entry TRBV3-1_TRBC2

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gttccaaatc gcttctcacc taaatctcca gacaaagctc acttaaatct tcacatcaat 300

tccctggagc ttggtgactc tgctgtgtat ttttgcagag accttgcggc cgcataggtc 360

tcagtgttcc cacccgaggt cgctgtgttt gagccatcag aagcagagat ctcccacacc 420

caaaaggcca cactggtatg cctggccaca ggcttctacc ccgaccacgt ggagctgagc 480

tggtgggtga atgggaagga ggtgcacagt ggggtcagca cagacccgca gcccctcaag 540

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gcctggggta gagcagactg tggcttcacc tccgagtctt accagcaagg ggtcctgtct 780

gccaccatcc tctatgagat cttgctaggg aaggccacct tgtatgccgt gctggtcagt 840

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<210> 486
<211> 888
<212> DNA
<213> Homo sapiens

<220>
<223> V-C entry TRBV4-1_TRBC2

<400> 486
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tctttgaaat gtgaacaaca tatggggcac agggctatgt attggtacaa gcagaaagct 180

aagaagccac cggagctcat gtttgtctac agctatgaga aactctctat aaatgaaagt 240

gtgccaagtc gcttctcacc tgaatgcccc aacagctctc tcttaaacct tcacctacac 300

gccctgcagc cagaagattc agccctgtat ctttgcagag accttgcggc cgcataggtc 360

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caaaaggcca cactggtatg cctggccaca ggcttctacc ccgaccacgt ggagctgagc 480

tggtgggtga atgggaagga ggtgcacagt ggggtcagca cagacccgca gcccctcaag 540

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gcctggggta gagcagactg tggcttcacc tccgagtctt accagcaagg ggtcctgtct 780

gccaccatcc tctatgagat cttgctaggg aaggccacct tgtatgccgt gctggtcagt 840

gccctcgtgc tgatggccat ggtcaagaga aaggattcca gaggctag 888

<210> 487
<211> 888
<212> DNA
<213> Homo sapiens

<220>
<223> V-C entry TRBV4-2_TRBC2

<400> 487
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tctttgaaat gtgaacaaca tctggggcat aacgctatgt attggtacaa gcaaagtgct 180

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accctgcagc cagaagattc ggccctgtat ctttgcagag accttgcggc cgcataggtc 360

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caaaaggcca cactggtatg cctggccaca ggcttctacc ccgaccacgt ggagctgagc 480

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gcctggggta gagcagactg tggcttcacc tccgagtctt accagcaagg ggtcctgtct 780

gccaccatcc tctatgagat cttgctaggg aaggccacct tgtatgccgt gctggtcagt 840

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<210> 488
<211> 888
<212> DNA
<213> Homo sapiens

<220>
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accctgcagc cagaagattc ggccctgtat ctttgcagag accttgcggc cgcataggtc 360

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caaaaggcca cactggtatg cctggccaca ggcttctacc ccgaccacgt ggagctgagc 480

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gcctggggta gagcagactg tggcttcacc tccgagtctt accagcaagg ggtcctgtct 780

gccaccatcc tctatgagat cttgctaggg aaggccacct tgtatgccgt gctggtcagt 840

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<210> 489
<211> 888
<212> DNA
<213> Homo sapiens

<220>
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<400> 489
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accttggagc tgggggactc ggcccttttat ctttgcagag accttgcggc cgcataggtc 360

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tggtgggtga atgggaagga ggtgcacagt ggggtcagca cagacccgca gcccctcaag 540

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gcctggggta gagcagactg tggcttcacc tccgagtctt accagcaagg ggtcctgtct 780

gccaccatcc tctatgagat cttgctaggg aaggccacct tgtatgccgt gctggtcagt 840

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<210> 490
<211> 888
<212> DNA
<213> Homo sapiens

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acagtgactt gttctcagaa tatgaaccat gagtatatgt cctggtatcg acaagaccca 180

gggctgggct taaggcagat ctactattca atgaatgttg aggtgactga taagggagat 240

gttcctgaag ggtacaaagt ctctcgaaaa gagaagagga atttcccct gatcctggag 300

tcgcccagcc ccaaccagac ctctctgtac ttttgcagag accttgcggc cgcataggtc 360

tcagtgttcc cacccgaggt cgctgtgttt gagccatcag aagcagagat ctcccacacc 420

caaaaggcca cactggtgtg cctggccaca ggcttcttcc ccgaccacgt ggagctgagc 480

tggtgggtga atgggaagga ggtgcacagt ggggtcagca cagacccgca gcccctcaag 540

gagcagcccg ccctcaatga ctccagatac tgcctgagca gccgcctgag ggtgtcggcc 600

accttctggc agaacccccg caaccacttc cgctgtcaag tccagttcta cgggctctcg 660

gagaatgacg agtggaccca ggatagggcc aaacccgtca cccagatcgt cagcgccgag 720

gcctggggta gagcagactg tggctttacc tcggtgtcct accagcaagg ggtcctgtct 780

gccaccatcc tctatgagat cctgctaggg aaggccaccc tgtatgctgt gctggtcagc 840

gcccttgtgt tgatggccat ggtcaagaga aaggatttct ga 882

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<213> Homo sapiens

<220>
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tttctggaat gtgtccagga tatggaccat gaaaatatgt tctggtatcg acaagaccca 180

ggtctggggc tacggctgat ctatttctca tatgatgtta aaatgaaaga aaaaggagat 240

attcctgagg ggtacagtgt ctctagagag aagaaggagc gcttctccct gattctggag 300

tccgccagca ccaaccagac atctatgtac ctttgcagag accttgcggc cgcataggtc 360

tcagtgttcc cacccgaggt cgctgtgttt gagccatcag aagcagagat ctcccacacc 420

caaaaggcca cactggtgtg cctggccaca ggcttcttcc ccgaccacgt ggagctgagc 480

tggtgggtga atgggaagga ggtgcacagt ggggtcagca cagacccgca gcccctcaag 540

gagcagcccg ccctcaatga ctccagatac tgcctgagca gccgcctgag ggtgtcggcc 600

accttctggc agaacccccg caaccacttc cgctgtcaag tccagttcta cgggctctcg 660

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gcctggggta gagcagactg tggctttacc tcggtgtcct accagcaagg ggtcctgtct 780

gccaccatcc tctatgagat cctgctaggg aaggccaccc tgtatgctgt gctggtcagc 840

gcccttgtgt tgatggccat ggtcaagaga aaggatttct ga 882

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acactgatcg caactgcaaa tcagggctct gaggccacat atgagagtgg atttgtcatt 240

gacaagtttc ccatcagccg cccaaaccta acattctcaa ctctgactgt gagcaacatg 300

agccctgaag atagcagcat atatctttgc agagaccttg cggccgcata ggtctcagtg 360

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gccacactgg tgtgcctggc cacaggcttc ttccccgacc acgtggagct gagctggtgg 480

gtgaatggga aggaggtgca cagtggggtc agcacagacc cgcagccccc caaggagcag 540

cccgccctca atgactccag atactgcctg agcagccgcc tgagggtgtc ggccaccttc 600

tggcagaacc cccgcaacca cttccgctgt caagtccagt tctacgggct ctcggagaat 660

gacgagtgga cccaggatag ggccaaaccc gtcacccaga tcgtcagcgc cgaggcctgg 720

ggtagagcag actgtggctt tacctcggtg tcctaccagc aaggggtcct gtctgccacc 780

atcctctatg agatcctgct agggaaggcc accctgtatg ctgtgctggt cagcgccctt 840

gtgttgatgg ccatggtcaa gagaaaggat ttctga 876

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<212> DNA
<213> Homo sapiens

<220>
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gagtgcactg tggagggaac atcaaacccc aacctatact ggtaccgaca ggctgcaggc 180

aggggcctcc agctgctctt ctactccgtt ggtattggcc agatcagctc tgaggtgccc 240

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gacgagtgga cccaggatag ggccaaaccc gtcacccaga tcgtcagcgc cgaggcctgg 720

ggtagagcag actgtggctt tacctcggtg tcctaccagc aaggggtcct gtctgccacc 780

atcctctatg agatcctgct agggaaggcc accctgtatg ctgtgctggt cagcgccctt 840

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<212> DNA
<213> Artificial Sequence

<220>
<223> TRBJ-C1_receiving_F1

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accc 64

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<212> DNA
<213> Artificial Sequence

<220>
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accc 64

<210> 580
<211> 64
<212> DNA
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<223> TRBJ-C1_receiving_R1

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accg 64

<210> 581
<211> 64
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accg 64

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<212> DNA
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<220>
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actcactata gggcgaattg gcggaaggcc gtcaaggccg catgaattcg gtctcgaagt 120

cttctgcggc cgctgaagac acaggacctg aacaaggtgt tgagaccctc gagctgggcc 180

tcatgggcct tccgctcact gcccgctttc cagtcgggaa acctgtcgtg ccagctgcat 240

taacatggtc atagctgttt ccttgcgtat tgggcgctct ccgcttcctc gctcactgac 300

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acgagcatca caaaaatcga cgctcaagtc agaggtggcg aaacccgaca ggactataaa 480

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gctgtaggta tctcagttcg gtgtaggtcg ttcgctccaa gctgggctgt gtgcacgaac 660

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tttttcaata ttattgaagc atttatcagg gttattgtct catgagcgga tacatatttg 2040

aatgtattta gaaaaataaa caaatagggg ttccgcgcac atttccccga aaagtgccac 2100

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gatagggttg agtggccgct acagggcgct cccattcgcc attcaggctg cgcaactgtt 2280

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gctgcaaggc gattaagttg ggtaac 2366

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actcactata gggcgaattg gcggaaggcc gtcaaggccg catgaattcg gtctcgaagt 120

cttctgcggc cgctgaagac acaggacctg aaaaacgtgt tgagaccctc gagctgggcc 180

tcatgggcct tccgctcact gcccgctttc cagtcgggaa acctgtcgtg ccagctgcat 240

taacatggtc atagctgttt ccttgcgtat tgggcgctct ccgcttcctc gctcactgac 300

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cttgatccgg caaacaaacc accgctggta gcggtggttt ttttgtttgc aagcagcaga 960

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tcacctagat ccttttaaat taaaaatgaa gttttaaatc aatctaaagt atatatgagt 1140

aaacttggtc tgacagttag aaaaattcgt ccagcatcag atgaaattgc agtttgttca 1200

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tttttcaata ttattgaagc atttatcagg gttattgtct catgagcgga tacatatttg 2040

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<220>
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<210> 585
<211> 35
<212> DNA
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<220>
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<400> 585
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<211> 35
<212> DNA
<213> Homo sapiens

<220>
<223> TRBJ1-3*01_BB-S_F1

<400> 586
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<210> 587
<211> 35
<212> DNA
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<220>
<223> TRBJ1-4*01_BB-S_F1

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<210> 588
<211> 35
<212> DNA
<213> Homo sapiens

<220>
<223> TRBJ1-5*01_BB-S_F1

<400> 588
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<210> 589
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<223> TRBJ1-6*01_BB-S_F1

<400> 589
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<210> 590
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<212> DNA
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<223> TRBJ2-1*01_BB-S_F1

<400> 590
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<400> 591
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<210> 594
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<212> DNA
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<400> 594
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<210> 595
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<210> 596
<211> 35
<212> DNA
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<400> 596
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<210> 597
<211> 35
<212> DNA
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<220>
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<400> 597
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<210> 598
<211> 35
<212> DNA
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<220>
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<400> 598
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<210> 599
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<211> 35
<212> DNA
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<210> 604
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<210> 605
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<212> DNA
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<400> 612
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<212> DNA
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<210> 614
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acc 63

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acc 63

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acc 63

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acc 63

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acc 63

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acc 63

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acc 63

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acc 63

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acc 63

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cgcaaaaaag ggaataaggg cgacacggaa atgttgaata ctcatactct tccttttca 1920

atattattga agcatttatc agggttattg tctcatgagc ggatacatat ttgaatgtat 1980

ttagaaaaat aaacaaatag gggttccgcg cacatttccc cgaaaagtgc cacctaaatt 2040

gtaagcgtta atattttgtt aaaattcgcg ttaaattttt gttaaatcag ctcatttttt 2100

aaccaatagg ccgaaatcgg caaaatccct tataaatcaa aagaatagac cgagataggg 2160

ttgagtggcc gctacagggc gctcccattc gccattcagg ctgcgcaact gttgggaagg 2220

gcgtttcggt gcgggcctct tcgctattac gccagctggc gaaaggggga tgtgctgcaa 2280

ggcgattaag ttgggtaacg ccagggtttt cccagtcacg acgttgtaaa acgacggcca 2340

gtgagcgcga cgtaatacga ctcactatag ggcgaattgg cggaaggccg tcaaggccgc 2400

atgaattcgc taccgggaag ttcctattcc gaagttccta ttctatcaga agtataggaa 2460

cttcaggtac c 2471

<210> 689
<211> 2471
<212> DNA
<213> Artificial Sequence

<220>
<223> V-C entry backbone FRT/F3

<400> 689
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gctgggcctc atgggccttc cgctcactgc ccgctttcca gtcgggaaac ctgtcgtgcc 120

agctgcatta acatggtcat agctgtttcc ttgcgtattg ggcgctctcc gcttcctcgc 180

tcactgactc gctgcgctcg gtcgttcggg taaagcctgg ggtgcctaat gagcaaaagg 240

ccagcaaaag gccaggaacc gtaaaaaggc cgcgttgctg gcgtttttcc ataggctccg 300

ccccccctgac gagcatcaca aaaatcgacg ctcaagtcag aggtggcgaa acccgacagg 360

actataaaga taccaggcgt ttcccccctgg aagctccctc gtgcgctctc ctgttccgac 420

cctgccgctt accggatacc tgtccgcctt tctcccttcg ggaagcgtgg cgctttctca 480

tagctcacgc tgtaggtatc tcagttcggt gtaggtcgtt cgctccaagc tgggctgtgt 540

gcacgaaccc cccgttcagc ccgaccgctg cgccttatcc ggtaactatc gtcttgagtc 600

caacccggta agacacgact tatcgccact ggcagcagcc actggtaaca ggattagcag 660

agcgaggtat gtaggcggtg ctacagagtt cttgaagtgg tggcctaact acggctacac 720

tagaagaaca gtatttggta tctgcgctct gctgaagcca gttaccttcg gaaaaagagt 780

tggtagctct tgatccggca aacaaaccac cgctggtagc ggtggttttt ttgtttgcaa 840

gcagcagatt acgcgcagaa aaaaaggatc tcaagaagat cctttgatct tttctacggg 900

gtctgacgct cagtggaacg aaaactcacg ttaagggatt ttggtcatga gattatcaaa 960

aaggatcttc acctagatcc ttttaaatta aaaatgaagt tttaaatcaa tctaaagtat 1020

atatgagtaa acttggtctg acagttacca atgcttaatc agtgaggcac ctatctcagc 1080

gatctgtcta tttcgttcat ccatagttgc ctgactcccc gtcgtgtaga taactacgat 1140

acgggagggc ttaccatctg gccccagtgc tgcaatgata ccgcgagaac cacgctcacc 1200

ggctccagat ttatcagcaa taaaccagcc agccggaagg gccgagcgca gaagtggtcc 1260

tgcaacttta tccgcctcca tccagtctat taattgttgc cgggaagcta gagtaagtag 1320

ttcgccagtt aatagtttgc gcaacgttgt tgccattgct acaggcatcg tggtgtcacg 1380

ctcgtcgttt ggtatggctt cattcagctc cggttcccaa cgatcaaggc gagttacatg 1440

atcccccatg ttgtgcaaaa aagcggttag ctccttcggt cctccgatcg ttgtcagaag 1500

taagttggcc gcagtgttat cactcatggt tatggcagca ctgcataatt ctcttactgt 1560

catgccatcc gtaagatgct tttctgtgac tggtgagtac tcaaccaagt cattctgaga 1620

atagtgtatg cggcgaccga gttgctcttg cccggcgtca atacgggata taccgcgcc 1680

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aaggatctta ccgctgttga gatccagttc gatgtaaccc actcgtgcac ccaactgatc 1800

ttcagcatct tttactttca ccagcgtttc tgggtgagca aaaacaggaa ggcaaaatgc 1860

cgcaaaaaag ggaataaggg cgacacggaa atgttgaata ctcatactct tccttttca 1920

atattattga agcatttatc agggttattg tctcatgagc ggatacatat ttgaatgtat 1980

ttagaaaaat aaacaaatag gggttccgcg cacatttccc cgaaaagtgc cacctaaatt 2040

gtaagcgtta atattttgtt aaaattcgcg ttaaattttt gttaaatcag ctcatttttt 2100

aaccaatagg ccgaaatcgg caaaatccct tataaatcaa aagaatagac cgagataggg 2160

ttgagtggcc gctacagggc gctcccattc gccattcagg ctgcgcaact gttgggaagg 2220

gcgtttcggt gcgggcctct tcgctattac gccagctggc gaaaggggga tgtgctgcaa 2280

ggcgattaag ttgggtaacg ccagggtttt cccagtcacg acgttgtaaa acgacggcca 2340

gtgagcgcga cgtaatacga ctcactatag ggcgaattgg cggaaggccg tcaaggccgc 2400

atgaattcgc taccgggaag ttcctattcc gaagttccta ttctctagaa agtataggaa 2460

cttcaggtac c 2471

<210> 690
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> Generic V cloning fragment (left part)

<220>
<221> misc_feature
<222> 38
<223> /note="The last nucleotide of SEQ ID 690 is linked to the first nucleotide of XNn (described in specification), and the last nucleotide of XNn is then linked to the first nucleotide of SEQ ID 745."

<400> 690
gtcagatact ccatgagcac gaagacttgt acgccacc 38

<210> 691
<211> 44
<212> DNA
<213> Artificial Sequence

<220>
<223> Generic C cloning fragment (left part)

<220>
<221> misc_feature
<222> 44
<223> /note="The last nucleotide of SEQ ID 691 is linked to the first nucleotide of YNn (described in specification), and the last nucleotide of YNn is then linked to the first nucleotide of SEQ ID 746."

<400> 691
gtgcactcct atgactaacg gaagactagg ccgcataggt ctca 44

<210> 692
<211> 592
<212> DNA
<213> Artificial Sequence

<220>
<223> Generic transient V-C entry vector (left part)

<220>
<221> misc_feature
<222> 592
<223> /note="The last nucleotide of SEQ ID 692 is linked to the first nucleotide of XNn (described in specification), and the last nucleotide of XNn is then linked to the first nucleotide of SEQ ID 747."

<400> 692
atagtaatca attacggggt cattagttca tagcccatat atggagttcc gcgttacata 60

acttacggta aatggcccgc ctggctgacc gcccaacgac ccccgcccat tgacgtcaat 120

aatgacgtat gttcccatag taacgccaat agggactttc cattgacgtc aatgggtgga 180

gtatttacgg taaactgccc acttggcagt acatcaagtg tatcatatgc caagtacgcc 240

ccctattgac gtcaatgacg gtaaatggcc cgcctggcat tatgcccagt acatgacctt 300

atgggacttt cctacttggc agtacatcta cgtattagtc atcgctatta ccatggtgat 360

gcggttttgg cagtacatca atgggcgtgg atagcggttt gactcacggg gatttccaag 420

tctccacccc attgacgtca atgggagttt gttttggcac caaaatcaac gggactttcc 480

aaaatgtcgt aacaactccg ccccattgac gcaaatgggc ggtaggcgtg tacggtggga 540

ggtctatata agcagagctg gtttagtgaa ccgtcagatc aggtacgcca cc 592

<210> 693
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Generic F14-F15 V-C entry vector (left part)

<220>
<221> misc_feature
<222> 60
<223> /note="The last nucleotide of SEQ ID 693 is linked to the first nucleotide of XNn (described in specification), and the last nucleotide of XNn is then linked to the first nucleotide of SEQ ID 749."

<400> 693
gaagttccta ttccgaagtt cctattctat cagaagtata ggaacttcag gtacgccacc 60

<210> 694
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Generic FRT-F3 V-C entry vector (left part)

<220>
<221> misc_feature
<222> 60
<223> /note="The last nucleotide of SEQ ID 694 is linked to the first nucleotide of XNn (described in specification), and the last nucleotide of XNn is then linked to the first nucleotide of SEQ ID 751."

<400> 694
gaagttccta ttccgaagtt cctattctct agaaagtata ggaacttcag gtacgccacc 60

<210> 695
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> Generic J receiving cassette F (left part)

<220>
<221> misc_feature
<222> 38
<223> /note="The last nucleotide of SEQ ID 695 is linked to the first nucleotide of Y’Nn (described in specification), and the last nucleotide of Y’Nn is then linked to the first nucleotide of TGAGACCC."

<400> 695
aattcggtct cgaagtcttc tgcggccgct gaagacac 38

<210> 696
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> Generic J receiving cassette R (left part)

<220>
<221> misc_feature
<222> 12
<223> /note="The last nucleotide of SEQ ID 696 is linked to the first nucleotide of Y’Nn (described in specification), and the last nucleotide of Y’Nn is then linked to the first nucleotide of SEQ ID 753."

<400> 696
tcgagggtct ca 12

<210> 697
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> Generic J receiving cassette vector (left part)

<220>
<221> misc_feature
<222> 38
<223> /note="The last nucleotide of SEQ ID 697 is linked to the first nucleotide of Y’Nn (described in specification), and the last nucleotide of Y’Nn is then linked to the first nucleotide of SEQ ID 754."

<400> 697
aattcggtct cgaagtcttc tgcggccgct gaagacac 38

<210> 698
<211> 10

<212> DNA
<213> Artificial Sequence

<220>
<223> Generic J segment F (dummy, see specification for description)

<400> 698
aaaaaaaaaa 10

<210> 699
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> Generic J segment R (dummy, see specification for description))

<400> 699
aaaaaaaaaa 10

<210> 700
<211> 13
<212> DNA
<213> Artificial Sequence

<220>
<223> Generic J donor vector (left part)

<220>
<221> misc_feature
<222> 13
<223> /note="The last nucleotide of SEQ ID 700 is linked to the first nucleotide of ZNnY’Nn (described in specification), and the last nucleotide of ZNnY’Nn is then linked to the first nucleotide of SEQ ID 755."

<400> 700
gaattcggtc tcg 13

<210> 701
<211> 816
<212> DNA
<213> Homo sapiens

<220>
<223> JG9 TRA FL

<400> 701
atgctccttg aacatttatt aataatcttg tggatgcagc tgacatgggt cagtggtcaa 60

cagctgaatc agagtcctca atctatgttt atccaggaag gagaagatgt ctccatgaac 120

tgcacttctt caagcatatt taacacctgg ctatggtaca agcaggaccc tggggaaggt 180

cctgtcctct tgatagcctt atataaggct ggtgaattga cctcaaatgg aagactgact 240

gctcagtttg gtataaccag aaaggacagc ttcctgaata tctcagcatc catacccagt 300

gatgtaggca tctacttctg tgctggaccc atgaaaacct cctacgacaa ggtgatattt 360

gggccaggga caagcttatc agtcattcca aatatccaga accctgaccc tgccgtgtac 420

cagctgagag actctaaatc cagtgacaag tctgtctgcc tattcaccga ttttgattct 480

caaacaaatg tgtcacaaag taaggattct gatgtgtata tcacagacaa aactgtgcta 540

gacatgaggt ctatggactt caagagcaac agtgctgtgg cctggagcaa caaatctgac 600

tttgcatgtg caaacgcctt caacaacagc attattccag aagacacctt cttccccagc 660

ccagaaagtt cctgtgatgt caagctggtc gagaaaagct ttgaaacaga tacgaaccta 720

aactttcaaa acctgtcagt gattgggttc cgaatcctcc tcctgaaagt ggccgggttt 780

aatctgctca tgacgctgcg gctgtggtcc agctga 816

<210> 702
<211> 927
<212> DNA
<213> Homo sapiens

<220>
<223> JG9 TRB FL

<400> 702
atggactcct ggaccttctg ctgtgtgtcc ctttgcatcc tggtagcaaa gcacacagat 60

gctggagtta tccagtcacc ccggcacgag gtgacagaga tgggacaaga agtgactctg 120

agatgtaaac caatttcagg acacgactac cttttctggt acagacagac catgatgcgg 180

ggactggagt tgctcattta ctttaacaac aacgttccga tagatgattc agggatgccc 240

gaggatcgat tctcagctaa gatgcctaat gcatcattct ccactctgaa gatccagccc 300

tcagaaccca gggactcagc tgtgtacttc tgtgccagca gttcggcaaa ctatggctac 360

accttcggtt cggggaccag gttaaccgtt gtagaggacc tgaacaaggt gttcccaccc 420

gaggtcgctg tgtttgagcc atcagaagca gagatctccc acacccaaaa ggccacactg 480

gtgtgcctgg ccacaggctt cttccctgac cacgtggagc tgagctggtg ggtgaatggg 540

aaggaggtgc acagtggggt cagcacggac ccgcagcccc tcaaggagca gcccgccctc 600

aatgactcca gatactgcct gagcagccgc ctgagggtct cggccacctt ctggcagaac 660

ccccgcaacc acttccgctg tcaagtccag ttctacgggc tctcggagaa tgacgagtgg 720

acccaggata gggccaaacc cgtcacccag atcgtcagcg ccgaggcctg gggtagagca 780

gactgtggct ttacctcggt gtcctaccag caaggggtcc tgtctgccac catcctctat 840

gagatcctgc tagggaaggc caccctgtat gctgtgctgg tcagcgccct tgtgttgatg 900

gccatggtca agagaaagga tttctga 927

<210> 703
<211> 40
<212> DNA
<213> Homo sapiens

<220>
<223> JG9 TRA odeCDR3 F

<400> 703
ctgcgctgga cccatgaaaa cctcctacga caaggtgata 40

<210> 704
<211> 40
<212> DNA
<213> Homo sapiens

<220>
<223> JG9 TRA odeCDR3 R

<400> 704
caaatatcac cttgtcgtag gaggttttca tgggtccagc 40

<210> 705
<211> 34
<212> DNA
<213> Homo sapiens

<220>
<223> JG9 TRB odeCDR3 F

<400> 705
ttgcgccagc agttccgcaa actatggcta cacc 34

<210> 706
<211> 34
<212> DNA
<213> Homo sapiens

<220>
<223> JG9 TRB odeCDR3 R

<400> 706
caaaggtgta gccatagttt gcggaactgc tggc 34

<210> 707
<211> 257
<212> DNA
<213> Homo sapiens

<220>
<223> TRA HBD4.1.S9-1.D5.a

<400> 707
gaagacagaa agtccagcac cttgatcctg ccccacgcta cgctgagaga cactgctgtg 60

tactattgca tcgtcaggga tcgttataac accggtaacc agttctattt tgggacaggg 120

acaagtttga cggtcattcc aaatatccag aaccctgacc ctgccgtgta ccagctgaga 180

gactctaaat ccagtgacaa gtctgtctgc ctattcaccg attttgattc tcaaacaaat 240

gtgtcacaaa gtaagga 257

<210> 708
<211> 257
<212> DNA
<213> Homo sapiens

<220>
<223> TRB HBD4.1.S9-1.D5.b

<400> 708
cagggttttc ccagtcacga ctagaaaaga gaagaggaat ttccccctga tcctggagtc 60

gcccagcccc aaccagacct ctctgtactt ctgtgccagc agtttgggcc caagctccta 120

cgagcagtac ttcgggccgg gcaccaggct cacggtcaca gaggacctga aaaacgtgtt 180

cccacccgag gtcgctgtgt ttgagccatc agaagcagag atcttccaca cccaaaaggc 240

cacactggtg tgcctgg 257

<210> 709
<211> 298
<212> DNA
<213> Homo sapiens

<220>

<223> TRA HBD4.1.S9-2.A6.a

<400> 709
gttttcccag tcacgactcc agaaggcaag aaaatccgcc aaccttgtca tctccgcttc 60

acaactgggg gactcagcaa tgtatttctg tgcaatgaga gagggcatgg atagcagcta 120

taaattgatc ttcgggagtg ggaccagact gctggtcagg cctgatatcc agaaccctga 180

ccctgccgtg taccagctga gagactctaa atccagtgac aagtctgtct gcctattcac 240

cgattttgat tctcaaacaa atgtgtcaca aagtaaggat tctgtactga gtgagtat 298

<210> 710
<211> 235
<212> DNA
<213> Homo sapiens

<220>
<223> TRA HBD4.1.S9-2.A6.a

<400> 710
ctttctccac tttggagatc cagcgcacag agcaggggga ctcggccatg tatctctgtg 60

ccagcagttt gcacgaccgg ggggcgcgga ctgaagcttt ctttggacaa ggcaccagac 120

tcacagttgt agaggacctg aacaaggtgt tcccacccga ggtcgctgtg tttgagccat 180

cagaagcaga gatctcccac acccaaaagg ccacactggt gtgcctggcc acagg 235

<210> 711
<211> 273
<212> DNA
<213> Homo sapiens

<220>
<223> TRA HBD4.1.S9-3.A1.a

<400> 711
cgacactaac ctttcagttt ggtgatgcaa gaaaggacag ttctctccac atcactgcag 60

cccagcctgg tgatacaggc ctctacctct gtgcaggagc tcgaggaggc ttcaaaacta 120

tctttggagc aggaacaaga ctatttgtta aagcaaatat ccagaaccct gaccctgccg 180

tgtaccagct gagagactct aaatccagtg acaagtctgt ctgcctattc accgattttg 240

attctcaaac aaatgtgtca caaagtaagg att 273

<210> 712
<211> 221

<212> DNA
<213> Homo sapiens

<220>
<223> TRB HBD4.1.S9-3.A1.b

<400> 712
ccccctgatc ctggagtcgc ccaaccccaa ccaagcctct ctgtacttct gtgccagcar 60

wttatcacca tctactggga actatggcta caccttcggt tcggggacca ggttaaccgt 120

tgtagaggac ctgaacaagg tgttcccacc cgaggtcgct gtgtttgagc catcagaagc 180

agagatctcc cacacccaaa aggcccacca ctggtgkgcc t 221

<210> 713
<211> 286
<212> DNA
<213> Homo sapiens

<220>
<223> TRA HBD4.1.S9-7.E5.a

<400> 713
aaggcaagaa aatccgccaa ccttgtcatm tccgcttcac aactggggga ctcagcaatg 60

tatttctgtg caatgaggcc ttatactgga ggcttcaaaa ctatctttgg agcaggaaca 120

agactatttg ttaaagcaaa tatccagaac cctgaccctg ccgtgtacca gctgagagac 180

tctaaatcca gtgacaagtc tgtctgccta ttcaccgatt ttgattctca aacaaatgtg 240

tcacaaagta aggattctga tgtgtatatc acagacaaaa ctktgc 286

<210> 714
<211> 238
<212> DNA
<213> Homo sapiens

<220>
<223> TRA HBD4.1.S9-7.E5.a

<400> 714
cgaaaagaga agaggaattt ccccmtgatc ctggagtcgc ccagccccaw ccagacctct 60

ctgtacttct gtgccagcts cactagcccc tcgmcagctc gctatggcta cwccttcggt 120

tcggggacca ggttaaccgt tgtagaggac ctgaacaagg tgttcccacc cgaggtcgct 180

gtgtttgagc catcagaagc agmswtctcc cacacccaaa aggccacact gagkgkgc 238

<210> 715
<211> 306
<212> DNA
<213> Homo sapiens

<220>
<223> TRA HBD4.1.S9-7.C5.a

<400> 715
tttgaacccg aatttaacaa gacacaaacc tccttccccc tgaagaaacc atctgccctt 60

gtgagcgatt ccgctttgta cttctgtgct gtgagatccc ggatggatag cagctataaa 120

ttgatcttcg ggagtgggac cagactactg gtcaggcctg atatccagaa ccctgaccct 180

gccgtgtacc agctgagaga ctctaaatcc agtgacaagt ctgtctgcct attcaccgat 240

tttgattctc aaacaaatgt gtcacaaagt aaggattctg atgtgtatat cacagacaaa 300

actgtg 306

<210> 716
<211> 251
<212> DNA
<213> Homo sapiens

<220>
<223> TRB HBD4.1.S9-7.C5.b

<400> 716
acgacctcca gggttttcta agggatgttt ctccaccttg aagatccagc gcacagagca 60

gggggactcg gccatgtatc tctgtgccag cagccccccc gacgcggcct acaatgagca 120

gttcttcggg ccagggacac ggctcaccgt gctagaggac ctgaaaaacg tgttcccacc 180

cgaggtcgct gtgtttgagc catcagaagc agagatctcc cacacccaaa aggccacact 240

ggtgtgcctg g 251

<210> 717
<211> 319
<212> DNA
<213> Homo sapiens

<220>
<223> TRA HBD4.1.S9-5.E3.a

<400> 717
agggttttcc cagtcacgac ttaagagtca cgcttgacac ttccaagaaa agcagttcct 60

tgttgatcac ggcttcccgg gcagcagaca ctgcttctta cttctgtgct acggagctcc 120

ggatggatag cagctataaa ttgatcttcg ggagtgggac cagactgctg gtcaggcctg 180

atatccagaa ccctgaccct gccgtgtacc agctgagaga ctctaaatcc agtgacaagt 240

ctgtctgcct attcaccgat tttgattctc aaacaaatgt gtcacaaagt aaggattctg 300

atgtgtatat cacagacaa 319

<210> 718
<211> 270
<212> DNA
<213> Homo sapiens

<220>
<223> TRA HBD4.1.S9-5.E3.b

<400> 718
agggttttcc cagtcacgac ctccagagag gcctaaggga tgtttctcca ctttggagat 60

ccagcgcaca gagcaggggg actcggccat gtatctctgt gccagcagct taagggaagg 120

acgactccca gagacccagt acttcgggcc aggcacgcgg ctcctggtgc tcgaggacct 180

gaaaaacgtg ttcccacccg aggtcgctgt gtttgagcca tcagaagcag agatctccca 240

cacccaaaag gccacactgg tgtgcctggc 270

<210> 719
<211> 43
<212> DNA
<213> Homo sapiens

<220>
<223> Forward TRA HBD4.1.S9-1.D5

<400> 719
ctgcatcgtc agggatcgtt ataacaccgg taaccagttc tat 43

<210> 720
<211> 43
<212> DNA
<213> Homo sapiens

<220>
<223> Reverse TRA HBD4.1.S9-1.D5

<400> 720
caaaatagaa ctggttaccg gtgttataac gatccctgac gat 43

<210> 721
<211> 40
<212> DNA
<213> Homo sapiens

<220>
<223> Forward TRB HBD4.1.S9-1.D5

<400> 721
ttgcgccagc agtttgggcc caagctccta cgagcagtac 40

<210> 722
<211> 40
<212> DNA
<213> Homo sapiens

<220>
<223> Reverse TRB HBD4.1.S9-1.D5

<400> 722
caaagtactg ctcgtaggag cttgggccca aactgctggc 40

<210> 723
<211> 43
<212> DNA
<213> Homo sapiens

<220>
<223> Forward TRA HBD4.1.S9-2.A6

<400> 723
ctgcgcaatg agagagggca tggatagcag ctataaattg atc 43

<210> 724
<211> 43
<212> DNA
<213> Homo sapiens

<220>
<223> Reverse TRA HBD4.1.S9-2.A6

<400> 724
caaagatcaa tttatagctg ctatccatgc cctctctcat tgc 43

<210> 725
<211> 46
<212> DNA
<213> Homo sapiens

<220>

<223> Forward TRB HBD4.1.S9-2.A6

<400> 725
ttgcgccagc agtttgcacg accgtggtgc gcggactgaa gctttc 46

<210> 726
<211> 46
<212> DNA
<213> Homo sapiens

<220>
<223> Reverse TRB HBD4.1.S9-2.A6

<400> 726
caaagaaagc ttcagtccgc gcaccacggt cgtgcaaact gctggc 46

<210> 727
<211> 34
<212> DNA
<213> Homo sapiens

<220>
<223> Forward TRA HBD4.1.S9-3.A1

<400> 727
ctgcgcagga gctcgaggag gcttcaaaac tatc 34

<210> 728
<211> 34
<212> DNA
<213> Homo sapiens

<220>
<223> Reverse TRA HBD4.1.S9-3.A1

<400> 728
caaagatagt tttgaagcct cctcgagctc ctgc 34

<210> 729
<211> 46
<212> DNA
<213> Homo sapiens

<220>
<223> Forward TRB HBD4.1.S9-3.A1

<400> 729
ttgcgccagc agtttatcac catctactgg gaactatggc tacacc 46

<210> 730
<211> 46
<212> DNA
<213> Homo sapiens

<220>
<223> Reverse TRB HBD4.1.S9-3.A1

<400> 730
caaaggtgta gccatagttc ccagtagatg gtgataaact gctggc 46

<210> 731
<211> 40
<212> DNA
<213> Homo sapiens

<220>
<223> Forward TRA HBD4.1.S9-7.E5

<400> 731
ctgcgcaatg aggccttata ctggaggctt caaaactatc 40

<210> 732
<211> 40
<212> DNA
<213> Homo sapiens

<220>
<223> Reverse TRA HBD4.1.S9-7.E5

<400> 732
caaagatagt tttgaagcct ccagtataag gcctcattgc 40

<210> 733
<211> 46
<212> DNA
<213> Homo sapiens

<220>
<223> Forward TRB HBD4.1.S9-7.E5

<400> 733
ttgcgccagc tccactagcc cctcgacagc tcgctatggc tacacc 46

<210> 734
<211> 46
<212> DNA
<213> Homo sapiens

<220>

<223> Reverse TRB HBD4.1.S9-7.E5

<400> 734
caaaggtgta gccatagcga gctgtcgagg ggctagtgga gctggc 46

<210> 735
<211> 43
<212> DNA
<213> Homo sapiens

<220>
<223> Forward TRA HBD4.1.S9-7.C5

<400> 735
ctgcgctgtg agatcccgga tggatagcag ctataaattg atc 43

<210> 736
<211> 43
<212> DNA
<213> Homo sapiens

<220>
<223> Reverse TRA HBD4.1.S9-7.C5

<400> 736
caaagatcaa tttatagctg ctatccatcc gggatctcac agc 43

<210> 737
<211> 43
<212> DNA
<213> Homo sapiens

<220>
<223> Forward TRB HBD4.1.S9-7.C5

<400> 737
ttgcgccagc agccctcctg acgcggccta caatgagcag ttc 43

<210> 738
<211> 43
<212> DNA
<213> Homo sapiens

<220>
<223> Reverse TRB HBD4.1.S9-7.C5

<400> 738
caaagaactg ctcattgtag gccgcgtcag gagggctgct ggc 43

<210> 739
<211> 43
<212> DNA
<213> Homo sapiens

<220>
<223> Forward TRA HBD4.1.S9-5.E3

<400> 739
ctgcgctacg gagctccgga tggatagcag ctataaattg atc 43

<210> 740
<211> 43
<212> DNA
<213> Homo sapiens

<220>
<223> Reverse TRA HBD4.1.S9-5.E3

<400> 740
caaagatcaa tttatagctg ctatccatcc ggagctccgt agc 43

<210> 741
<211> 46
<212> DNA
<213> Homo sapiens

<220>
<223> Forward TRB HBD4.1.S9-5.E3

<400> 741
ttgcgccagc agcttaaggg aaggacgact cccagagaca cagtac 46

<210> 742
<211> 46
<212> DNA
<213> Homo sapiens

<220>
<223> Reverse TRB HBD4.1.S9-5.E3

<400> 742
caaagtactg tgtctctggg agtcgtcctt cccttaagct gctggc 46

<210> 743
<211> 40
<212> DNA
<213> Artificial Sequence

<220>

<223> Forward TRA odeCDR3 - 3 positions degenerate

<220>
<221> misc_feature
<222> 15
<223> /note="n = a, t, c or g"

<220>
<221> misc_feature
<222> 20
<223> /note="n = a, t, c or g"

<220>
<221> misc_feature
<222> 26
<223> /note="n = a, t, c or g"

<400> 743
ctgcgctgga cccangaaan cctccnacga caaggtgata 40

<210> 744
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse TRA odeCDR3 - 3 positions degenerate

<220>
<221> misc_feature
<222> 19
<223> /note="n = a, t, c or g"

<220>
<221> misc_feature
<222> 25
<223> /note="n = a, t, c or g"

<220>
<221> misc_feature
<222> 30
<223> /note="n = a, t, c or g"

<400> 744
caaatatcac cttgtcgtng gaggntttcn tgggtccagc 40

<210> 745
<211> 43
<212> DNA
<213> Artificial Sequence

<220>

<223> Generic V cloning fragment (right part)

<220>
<221> misc_feature
<222> 1
<223> /note="The first nucleotide of SEQ ID 745 is linked to the last nucleotide of XNn (described in specification), and the first nucleotide of XNn is then linked to the last nucleotide of SEQ ID 690. "

<400> 745
agagaccttg cggccgtgtc ttcgactagt agctcaccta cga 43

<210> 746
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Generic C cloning fragment (right part)

<220>
<221> misc_feature
<222> 1
<223> /note="The first nucleotide of SEQ ID 746 is linked to the last nucleotide of YNn (described in specification), and the first nucleotide of YNn is then linked to the last nucleotide of SEQ ID 691."

<400> 746
ctaggtgtct tccctatgct gaatcgatgg tc 32

<210> 747
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Generic transient V-C entry vector (middle part)

<220>
<221> misc_feature
<222> 1
<223> /note="The first nucleotide of SEQ ID 747 is linked to the last nucleotide of XNn (described in specification), and the first nucleotide of XNn is then linked to the last nucleotide of SEQ ID 692."

<220>
<221> misc_feature
<222> 27
<223> /note="The last nucleotide of SEQ ID 747 is linked to the first

nucleotide of YNn (described in specification), and the last nucleotide of YNn is then linked to the first nucleotide of SEQ ID 748."

<400> 747
agagaccttg cggccgcata ggtctca 27

<210> 748
<211> 2622
<212> DNA
<213> Artificial Sequence

<220>
<223> Generic transient V-C entry vector (right part)

<220>
<221> misc_feature
<222> 1
<223> /note="The first nucleotide of SEQ ID 748 is linked to the last nucleotide of YNn (described in specification), and the first nucleotide of YNn is then linked to the last nucleotide of SEQ ID 747."

<400> 748
ctagacctga tcataatcaa gccatatcac atctgtagag gtttacttgc tttaaaaaac 60

ctccacacct ccccctgaac ctgaaacata aaatgaatgc aattgttgtt gttaacttgt 120

ttattgcagc ttataatggt tacaaataaa gcaatagcat cacaaatttc acaaataaag 180

catttttttc actgcattct agttgtggtt tgtccaaact catcaatgta tcttatcatg 240

tctggatctg cggatccaat ctcgagctgg gcctcatggg ccttccgctc actgcccgct 300

ttccagtcgg gaaacctgtc gtgccagctg cattaacatg gtcatagctg tttccttgcg 360

tattgggcgc tctccgcttc ctcgctcact gactcgctgc gctcggtcgt tcgggtaaag 420

cctggggtgc ctaatgagca aaaggccagc aaaaggccag gaaccgtaaa aaggccgcgt 480

tgctggcgtt tttccatagg ctccgccccc ctgacgagca tcacaaaaat cgacgctcaa 540

gtcagaggtg gcgaaacccg acaggactat aaagatacca ggcgtttccc cctggaagct 600

ccctcgtgcg ctctcctgtt ccgaccctgc cgcttaccgg atacctgtcc gcctttctcc 660

cttcgggaag cgtggcgctt tctcatagct cacgctgtag gtatctcagt tcggtgtagg 720

tcgttcgctc caagctgggc tgtgtgcacg aaccccccgt tcagcccgac cgctgcgcct 780

tatccggtaa ctatcgtctt gagtccaacc cggtaagaca cgacttatcg ccactggcag 840

cagccactgg taacaggatt agcagagcga ggtatgtagg cggtgctaca gagttcttga 900

agtggtggcc taactacggc tacactagaa gaacagtatt tggtatctgc gctctgctga 960

agccagttac cttcggaaaa agagttggta gctcttgatc cggcaaacaa accaccgctg 1020

gtagcggtgg tttttttgtt tgcaagcagc agattacgcg cagaaaaaaa ggatctcaag 1080

aagatccttt gatcttttct acggggtctg acgctcagtg gaacgaaaac tcacgttaag 1140

ggattttggt catgagatta tcaaaaagga tcttcaccta gatcctttta aattaaaaat 1200

gaagttttaa atcaatctaa agtatatatg agtaaacttg gtctgacagt taccaatgct 1260

taatcagtga ggcacctatc tcagcgatct gtctatttcg ttcatccata gttgcctgac 1320

tccccgtcgt gtagataact acgatacggg agggcttacc atctggcccc agtgctgcaa 1380

tgataccgcg agaaccacgc tcaccggctc cagatttatc agcaataaac cagccagccg 1440

gaagggccga gcgcagaagt ggtcctgcaa ctttatccgc ctccatccag tctattaatt 1500

gttgccggga agctagagta agtagttcgc cagttaatag tttgcgcaac gttgttgcca 1560

ttgctacagg catcgtggtg tcacgctcgt cgtttggtat ggcttcattc agctccggtt 1620

cccaacgatc aaggcgagtt acatgatccc ccatgttgtg caaaaaagcg gttagctcct 1680

tcggtcctcc gatcgttgtc agaagtaagt tggccgcagt gttatcactc atggttatgg 1740

cagcactgca taattctctt actgtcatgc catccgtaag atgcttttct gtgactggtg 1800

agtactcaac caagtcattc tgagaatagt gtatgcggcg accgagttgc tcttgcccgg 1860

cgtcaatacg ggataatacc gcgccacata gcagaacttt aaaagtgctc atcattggaa 1920

aacgttcttc ggggcgaaaa ctctcaagga tcttaccgct gttgagatcc agttcgatgt 1980

aacccactcg tgcacccaac tgatcttcag catcttttac tttcaccagc gtttctgggt 2040

gagcaaaaac aggaaggcaa aatgccgcaa aaaagggaat aagggcgaca cggaaatgtt 2100

gaatactcat actcttcctt tttcaatatt attgaagcat ttatcagggt tattgtctca 2160

tgagcggata catatttgaa tgtatttaga aaaataaaca aatagggggtt ccgcgcacat 2220

ttccccgaaa agtgccacct aaattgtaag cgttaatatt ttgttaaaat tcgcgttaaa 2280

tttttgttaa atcagctcat tttttaacca ataggccgaa atcggcaaaa tcccttataa 2340

atcaaaagaa tagaccgaga tagggttgag tggccgctac agggcgctcc cattcgccat 2400

tcaggctgcg caactgttgg gaagggcgtt tcggtgcggg cctcttcgct attacgccag 2460

ctggcgaaag ggggatgtgc tgcaaggcga ttaagttggg taacgccagg gttttcccag 2520

tcacgacgtt gtaaaacgac ggccagtgag cgcgacgtaa tacgactcac tatagggcga 2580

attggcggaa ggccgtcaag gccgcatgaa ttcgctaccg gt 2622

<210> 749
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Generic F14-F15 V-C entry vector (middle part)

<220>
<221> misc_feature
<222> 1
<223> /note="The first nucleotide of SEQ ID 749 is linked to the last nucleotide of XNn (described in specification), and the first nucleotide of XNn is then linked to the last nucleotide of SEQ ID 693."

<220>
<221> misc_feature
<222> 27
<223> /note="The last nucleotide of SEQ ID 749 is linked to the first nucleotide of YNn (described in specification), and the last nucleotide of YNn is then linked to the first nucleotide of SEQ ID 750."

<400> 749
agagaccttg cggccgcata ggtctca 27

<210> 750
<211> 2415
<212> DNA
<213> Artificial Sequence

<220>
<223> Generic F14-F15 V-C entry vector (right part)

<220>
<221> misc_feature
<222> 1
<223> /note="The first nucleotide of SEQ ID 750 is linked to the last nucleotide of YNn (described in specification), and the first nucleotide of YNn is then linked to the last nucleotide of SEQ ID 749."

<400> 750
ctagacgaag ttcctattcc gaagttccta ttcttatagg agtataggaa cttcctcgag 60

ctgggcctca tgggccttcc gctcactgcc cgctttccag tcgggaaacc tgtcgtgcca 120

gctgcattaa catggtcata gctgtttcct tgcgtattgg gcgctctccg cttcctcgct 180

cactgactcg ctgcgctcgg tcgttcgggt aaagcctggg gtgcctaatg agcaaaaggc 240

cagcaaaagg ccaggaaccg taaaaaggcc gcgttgctgg cgtttttcca taggctccgc 300

ccccctgacg agcatcacaa aaatcgacgc tcaagtcaga ggtggcgaaa cccgacagga 360

ctataaagat accaggcgtt tccccctgga agctccctcg tgcgctctcc tgttccgacc 420

ctgccgctta ccggatacct gtccgccttt ctcccttcgg gaagcgtggc gctttctcat 480

agctcacgct gtaggtatct cagttcggtg taggtcgttc gctccaagct gggctgtgtg 540

cacgaacccc ccgttcagcc cgaccgctgc gccttatccg gtaactatcg tcttgagtcc 600

aacccggtaa gacacgactt atcgccactg gcagcagcca ctggtaacag gattagcaga 660

gcgaggtatg taggcggtgc tacagagttc ttgaagtggt ggcctaacta cggctacact 720

agaagaacag tatttggtat ctgcgctctg ctgaagccag ttaccttcgg aaaaagagtt 780

ggtagctctt gatccggcaa acaaaccacc gctggtagcg gtggtttttt tgtttgcaag 840

cagcagatta cgcgcagaaa aaaaggatct caagaagatc ctttgatctt ttctacgggg 900

tctgacgctc agtggaacga aaactcacgt taagggattt tggtcatgag attatcaaaa 960

aggatcttca cctagatcct tttaaattaa aaatgaagtt ttaaatcaat ctaaagtata 1020

tatgagtaaa cttggtctga cagttaccaa tgcttaatca gtgaggcacc tatctcagcg 1080

atctgtctat ttcgttcatc catagttgcc tgactccccg tcgtgtagat aactacgata 1140

cgggagggct taccatctgg ccccagtgct gcaatgatac cgcgagaacc acgctcaccg 1200

gctccagatt tatcagcaat aaaccagcca gccggaaggg ccgagcgcag aagtggtcct 1260

gcaactttat ccgcctccat ccagtctatt aattgttgcc gggaagctag agtaagtagt 1320

tcgccagtta atagtttgcg caacgttgtt gccattgcta caggcatcgt ggtgtcacgc 1380

tcgtcgtttg gtatggcttc attcagctcc ggttcccaac gatcaaggcg agttacatga 1440

tcccccatgt tgtgcaaaaa agcggttagc tccttcggtc ctccgatcgt tgtcagaagt 1500

aagttggccg cagtgttatc actcatggtt atggcagcac tgcataattc tcttactgtc 1560

atgccatccg taagatgctt ttctgtgact ggtgagtact caaccaagtc attctgagaa 1620

tagtgtatgc ggcgaccgag ttgctcttgc ccggcgtcaa tacgggataa taccgcgcca 1680

catagcagaa ctttaaaagt gctcatcatt ggaaaacgtt cttcggggcg aaaactctca 1740

aggatcttac cgctgttgag atccagttcg atgtaaccca ctcgtgcacc caactgatct 1800

tcagcatctt ttactttcac cagcgtttct gggtgagcaa aaacaggaag gcaaaatgcc 1860

gcaaaaaagg gaataagggc gacacggaaa tgttgaatac tcatactctt cctttttcaa 1920

tattattgaa gcatttatca gggttattgt ctcatgagcg gatacatatt tgaatgtatt 1980

tagaaaaata aacaaatagg ggttccgcgc acatttcccc gaaaagtgcc acctaaattg 2040

taagcgttaa tattttgtta aaattcgcgt taaatttttg ttaaatcagc tcatttttta 2100

accaataggc cgaaatcggc aaaatccctt ataaatcaaa agaatagacc gagatagggt 2160

tgagtggccg ctacagggcg ctcccattcg ccattcaggc tgcgcaactg ttgggaaggg 2220

cgtttcggtg cgggcctctt cgctattacg ccagctggcg aaaggggat gtgctgcaag 2280

gcgattaagt tgggtaacgc cagggttttc ccagtcacga cgttgtaaaa cgacggccag 2340

tgagcgcgac gtaatacgac tcactatagg gcgaattggc ggaaggccgt caaggccgca 2400

tgaattcgct accgg 2415

<210> 751
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Generic FRT-F3 V-C entry vector (middle part)

<220>
<221> misc_feature
<222> 1
<223> /note="The first nucleotide of SEQ ID 751 is linked to the last nucleotide of XNn (described in specification), and the first nucleotide of XNn is then linked to the last nucleotide of SEQ ID 694."

<220>
<221> misc_feature
<222> 27
<223> /note="The last nucleotide of SEQ ID 751 is linked to the first nucleotide of YNn (described in specification), and the last nucleotide of YNn is then linked to the first nucleotide of SEQ ID 752."

<400> 751
agagaccttg cggccgcata ggtctca 27

<210> 752
<211> 2415
<212> DNA
<213> Artificial Sequence

<220>
<223> Generic FRT-F3 V-C entry vector (middle part)

<220>
<221> misc_feature
<222> 1
<223> /note="The first nucleotide of SEQ ID 752 is linked to the last nucleotide of YNn (described in specification), and the first nucleotide of YNn is then linked to the last nucleotide of SEQ ID 751."

<400> 752
ctagacgaag ttcctattcc gaagttccta ttcttcaaat agtataggaa cttcctcgag 60

ctgggcctca tgggccttcc gctcactgcc cgctttccag tcgggaaacc tgtcgtgcca 120

gctgcattaa catggtcata gctgtttcct tgcgtattgg gcgctctccg cttcctcgct 180

cactgactcg ctgcgctcgg tcgttcgggt aaagcctggg gtgcctaatg agcaaaaggc 240

cagcaaaagg ccaggaaccg taaaaaggcc gcgttgctgg cgtttttcca taggctccgc 300

cccctgacg agcatcacaa aaatcgacgc tcaagtcaga ggtggcgaaa cccgacagga 360

ctataaagat accaggcgtt tccccctgga agctccctcg tgcgctctcc tgttccgacc 420

ctgccgctta ccggatacct gtccgccttt ctcccttcgg gaagcgtggc gctttctcat 480

agctcacgct gtaggtatct cagttcggtg taggtcgttc gctccaagct gggctgtgtg 540

cacgaacccc ccgttcagcc cgaccgctgc gccttatccg gtaactatcg tcttgagtcc 600

aacccggtaa gacacgactt atcgccactg gcagcagcca ctggtaacag gattagcaga 660

gcgaggtatg taggcggtgc tacagagttc ttgaagtggt ggcctaacta cggctacact 720

agaagaacag tatttggtat ctgcgctctg ctgaagccag ttaccttcgg aaaaagagtt 780

ggtagctctt gatccggcaa acaaaccacc gctggtagcg gtggtttttt tgtttgcaag 840

cagcagatta cgcgcagaaa aaaaggatct caagaagatc ctttgatctt ttctacgggg 900

tctgacgctc agtggaacga aaactcacgt taagggattt tggtcatgag attatcaaaa 960

aggatcttca cctagatcct tttaaattaa aaatgaagtt ttaaatcaat ctaaagtata 1020

tatgagtaaa cttggtctga cagttaccaa tgcttaatca gtgaggcacc tatctcagcg 1080

atctgtctat ttcgttcatc catagttgcc tgactccccg tcgtgtagat aactacgata 1140

cgggagggct taccatctgg ccccagtgct gcaatgatac cgcgagaacc acgctcaccg 1200

gctccagatt tatcagcaat aaaccagcca gccggaaggg ccgagcgcag aagtggtcct 1260

gcaactttat ccgcctccat ccagtctatt aattgttgcc gggaagctag agtaagtagt 1320

tcgccagtta atagtttgcg caacgttgtt gccattgcta caggcatcgt ggtgtcacgc 1380

tcgtcgtttg gtatggcttc attcagctcc ggttcccaac gatcaaggcg agttacatga 1440

tcccccatgt tgtgcaaaaa agcggttagc tccttcggtc ctccgatcgt tgtcagaagt 1500

aagttggccg cagtgttatc actcatggtt atggcagcac tgcataattc tcttactgtc 1560

atgccatccg taagatgctt ttctgtgact ggtgagtact caaccaagtc attctgagaa 1620

tagtgtatgc ggcgaccgag ttgctcttgc ccggcgtcaa tacgggataa taccgcgcca 1680

catagcagaa ctttaaaagt gctcatcatt ggaaaacgtt cttcggggcg aaaactctca 1740

aggatcttac cgctgttgag atccagttcg atgtaaccca ctcgtgcacc caactgatct 1800

tcagcatctt ttactttcac cagcgtttct gggtgagcaa aaacaggaag gcaaaatgcc 1860

gcaaaaaagg gaataagggc gacacggaaa tgttgaatac tcatactctt cctttttcaa 1920

tattattgaa gcatttatca gggttattgt ctcatgagcg gatacatatt tgaatgtatt 1980

tagaaaaata aacaaatagg ggttccgcgc acatttcccc gaaaagtgcc acctaaattg 2040

taagcgttaa tattttgtta aaattcgcgt taaatttttg ttaaatcagc tcatttttta 2100

accaataggc cgaaatcggc aaaatccctt ataaatcaaa agaatagacc gagatagggt 2160

tgagtggccg ctacagggcg ctcccattcg ccattcaggc tgcgcaactg ttgggaaggg 2220

cgtttcggtg cgggcctctt cgctattacg ccagctggcg aaaggggat gtgctgcaag 2280

gcgattaagt tgggtaacgc cagggttttc ccagtcacga cgttgtaaaa cgacggccag 2340

tgagcgcgac gtaatacgac tcactatagg gcgaattggc ggaaggccgt caaggccgca 2400

tgaattcgct accgg 2415

<210> 753
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Generic J receiving cassette R (right part)

<220>
<221> misc_feature
<222> 1
<223> /note="The first nucleotide of SEQ ID 753 is linked to the last nucleotide of Y’Nn (described in specification), and the first nucleotide of Y’Nn is then linked to the last nucleotide of SEQ ID 696."

<400> 753
gtgtcttcag cggccgcaga agacttcgag accg 34

<210> 754
<211> 2310
<212> DNA
<213> Artificial Sequence

<220>
<223> Generic J receiving cassette vector (right part)

<220>
<221> misc_feature
<222> 1
<223> /note="The first nucleotide of SEQ ID 754 is linked to the last nucleotide of Y’Nn (described in specification), and the first nucleotide of Y’Nn is then linked to the last nucleotide of SEQ ID 697."

<400> 754
tgagaccctc gagctgggcc tcatgggcct tccgctcact gcccgctttc cagtcgggaa 60

acctgtcgtg ccagctgcat taacatggtc atagctgttt ccttgcgtat tgggcgctct 120

ccgcttcctc gctcactgac tcgctgcgct cggtcgttcg ggtaaagcct ggggtgccta 180

atgagcaaaa ggccagcaaa aggccaggaa ccgtaaaaag gccgcgttgc tggcgttttt 240

ccataggctc cgccccctg acgagcatca caaaaatcga cgctcaagtc agaggtggcg 300

aaacccgaca ggactataaa gataccaggc gtttcccccct ggaagctccc tcgtgcgctc 360

tcctgttccg accctgccgc ttaccggata cctgtccgcc tttctccctt cgggaagcgt 420

ggcgctttct catagctcac gctgtaggta tctcagttcg gtgtaggtcg ttcgctccaa 480

gctgggctgt gtgcacgaac cccccgttca gcccgaccgc tgcgccttat ccggtaacta 540

tcgtcttgag tccaacccgg taagacacga cttatcgcca ctggcagcag ccactggtaa 600

caggattagc agagcgaggt atgtaggcgg tgctacagag ttcttgaagt ggtggcctaa 660

ctacggctac actagaagaa cagtatttgg tatctgcgct ctgctgaagc cagttacctt 720

cggaaaaaga gttggtagct cttgatccgg caaacaaacc accgctggta gcggtggttt 780

ttttgtttgc aagcagcaga ttacgcgcag aaaaaaagga tctcaagaag atcctttgat 840

cttttctacg gggtctgacg ctcagtggaa cgaaaactca cgttaaggga ttttggtcat 900

gagattatca aaaaggatct tcacctagat ccttttaaat taaaaatgaa gttttaaatc 960

aatctaaagt atatatgagt aaacttggtc tgacagttag aaaaattcgt ccagcatcag 1020

atgaaattgc agtttgttca tgtccgggtt atcaatacca tatttctgga acagacgttt 1080

ctgcaggctc gggctaaatt cacccagaca attccacaga attgccagat cctgataacg 1140

atctgcaata ccaacacgac caacatcaat gcagccaatc agtttaccct catcaaaaat 1200

caggttatcc aggctaaaat caccatgggt aacaacgcta tccggactaa acggcagcag 1260

tttatgcatt tctttccaaa cctgttcaac aggccaacca ttacgttcat catcaaaatc 1320

gcttgcatca accagaccat tattcatacg gctctgtgcc tgtgccagac gaaaaacacg 1380

atcgctatta aacggacaat tacaaaccgg aatgctatgc agacgacgca gaaaaactgc 1440

cagtgcatca acaatatttt cgcctgaatc cggatattct tccagaacct gaaatgcggt 1500

tttacccgga attgcggtgg tcagcagcca tgcatcatcc ggtgtacgaa taaaatgttt 1560

aatggtcggc agcggcataa attcggtcag ccaattcaga cgaaccattt catcggtcac 1620

atcatttgca acgctacctt taccatgttt cagaaacagt tccggtgcat ccggtttacc 1680

atacagacga taaatggttg caccgctctg accaacatta tcacgtgccc atttatagcc 1740

atacagatct gcatccatat tgctattcag acgcggacgg ctacagctgg tttcacgctg 1800

aatatggctc atactcttcc tttttcaata ttattgaagc atttatcagg gttattgtct 1860

catgagcgga tacatatttg aatgtattta gaaaaataaa caaatagggg ttccgcgcac 1920

atttccccga aaagtgccac ctaaattgta agcgttaata ttttgttaaa attcgcgtta 1980

aatttttgtt aaatcagctc atttttttaac caataggccg aaatcggcaa aatcccttat 2040

aaatcaaaag aatagaccga gatagggttg agtggccgct acagggcgct cccattcgcc 2100

attcaggctg cgcaactgtt gggaagggcg tttcggtgcg ggcctcttcg ctattacgcc 2160

agctggcgaa agggggatgt gctgcaaggc gattaagttg ggtaacgcca gggttttccc 2220

agtcacgacg ttgtaaaacg acggccagtg agcgcgacgt aatacgactc actatagggc 2280

gaattggcgg aaggccgtca aggccgcatg 2310

<210> 755
<211> 2309
<212> DNA
<213> Artificial Sequence

<220>
<223> Generic J donor vector (right part)

<220>
<221> misc_feature
<222> 1
<223> /note="The first nucleotide of SEQ ID 755 is linked to the last nucleotide of ZNnY’Nn (described in specification), and the first nucleotide of ZNnY’Nn is then linked to the last nucleotide of SEQ ID 700."

<400> 755
tgagaccctc gagctgggcc tcatgggcct tccgctcact gcccgctttc cagtcgggaa 60

acctgtcgtg ccagctgcat taacatggtc atagctgttt ccttgcgtat tgggcgctct 120

ccgcttcctc gctcactgac tcgctgcgct cggtcgttcg ggtaaagcct ggggtgccta 180

atgagcaaaa ggccagcaaa aggccaggaa ccgtaaaaag gccgcgttgc tggcgttttt 240

ccataggctc cgcccccctg acgagcatca caaaaatcga cgctcaagtc agaggtggcg 300

aaacccgaca ggactataaa gataccaggc gtttcccccct ggaagctccc tcgtgcgctc 360

tcctgttccg accctgccgc ttaccggata cctgtccgcc tttctccctt cgggaagcgt 420

ggcgctttct catagctcac gctgtaggta tctcagttcg gtgtaggtcg ttcgctccaa 480

gctgggctgt gtgcacgaac cccccgttca gcccgaccgc tgcgccttat ccggtaacta 540

tcgtcttgag tccaacccgg taagacacga cttatcgcca ctggcagcag ccactggtaa 600

caggattagc agagcgaggt atgtaggcgg tgctacagag ttcttgaagt ggtggcctaa 660

ctacggctac actagaagaa cagtatttgg tatctgcgct ctgctgaagc cagttacctt 720

cggaaaaaga gttggtagct cttgatccgg caaacaaacc accgctggta gcggtggttt 780

ttttgtttgc aagcagcaga ttacgcgcag aaaaaaagga tctcaagaag atcctttgat 840

cttttctacg gggtctgacg ctcagtggaa cgaaaactca cgttaaggga ttttggtcat 900

gagattatca aaaaggatct tcacctagat ccttttaaat taaaaatgaa gttttaaatc 960

aatctaaagt atatatgagt aaacttggtc tgacagttag aaaaattcgt ccagcatcag 1020

atgaaattgc agtttgttca tgtccgggtt atcaatacca tatttctgga acagacgttt 1080

ctgcaggctc gggctaaatt cacccagaca attccacaga attgccagat cctgataacg 1140

atctgcaata ccaacacgac caacatcaat gcagccaatc agtttaccct catcaaaaat 1200

caggttatcc aggctaaaat caccatgggt aacaacgcta tccggactaa acggcagcag 1260

tttatgcatt tctttccaaa cctgttcaac aggccaacca ttacgttcat catcaaaatc 1320

gcttgcatca accagaccat tattcatacg gctctgtgcc tgtgccagac gaaaaacacg 1380

atcgctatta aacggacaat tacaaaccgg aatgctatgc agacgacgca gaaaaactgc 1440

cagtgcatca acaatatttt cgcctgaatc cggatattct tccagaacct gaaatgcggt 1500

tttacccgga attgcggtgg tcagcagcca tgcatcatcc ggtgtacgaa taaaatgttt 1560

aatggtcggc agcggcataa attcggtcag ccaattcaga cgaaccattt catcggtcac 1620

atcatttgca acgctacctt taccatgttt cagaaacagt tccggtgcat ccggtttacc 1680

atacagacga taaatggttg caccgctctg accaacatta tcacgtgccc atttatagcc 1740

atacagatct gcatccatat tgctattcag acgcggacgg ctacagctgg tttcacgctg 1800

aatatggctc atactcttcc tttttcaata ttattgaagc atttatcagg gttattgtct 1860

catgagcgga tacatatttg aatgtattta gaaaaataaa caaatagggg ttccgcgcac 1920

atttccccga aaagtgccac ctaaattgta agcgttaata ttttgttaaa attcgcgtta 1980

aatttttgtt aaatcagctc atttttttaac caataggccg aaatcggcaa aatcccttat 2040

aaatcaaaag aatagaccga gatagggttg agtggccgct acagggcgct cccattcgcc 2100

attcaggctg cgcaactgtt gggaagggcg tttcggtgcg ggcctcttcg ctattacgcc 2160

agctggcgaa agggggatgt gctgcaaggc gattaagttg ggtaacgcca gggttttccc 2220

agtcacgacg ttgtaaaacg acggccagtg agcgcgacgt aatacgactc actatagggc 2280

gaattggcgg aaggccgtca aggccgcat 2309

<210> 756
<211> 2510
<212> DNA
<213> Artificial Sequence

<220>
<223> V-Ca entry backbone FRT/F3

<400> 756
ctagctagag acgttgtcga catcgtctct tacctagacg aagttcctat tccgaagttc 60

ctattcttca aatagtatag gaacttcctc gagctgggcc tcatgggcct tccgctcact 120

gcccgctttc cagtcgggaa acctgtcgtg ccagctgcat taacatggtc atagctgttt 180

ccttgcgtat tgggcgctct ccgcttcctc gctcactgac tcgctgcgct cggtcgttcg 240

ggtaaagcct ggggtgccta atgagcaaaa ggccagcaaa aggccaggaa ccgtaaaaag 300

gccgcgttgc tggcgttttt ccataggctc cgcccccctg acgagcatca caaaaatcga 360

cgctcaagtc agaggtggcg aaacccgaca ggactataaa gataccaggc gtttcccccct 420

ggaagctccc tcgtgcgctc tcctgttccg accctgccgc ttaccggata cctgtccgcc 480

tttctccctt cgggaagcgt ggcgctttct catagctcac gctgtaggta tctcagttcg 540

gtgtaggtcg ttcgctccaa gctgggctgt gtgcacgaac cccccgttca gcccgaccgc 600

tgcgccttat ccggtaacta tcgtcttgag tccaacccgg taagacacga cttatcgcca 660

ctggcagcag ccactggtaa caggattagc agagcgaggt atgtaggcgg tgctacagag 720

ttcttgaagt ggtggcctaa ctacggctac actagaagaa cagtatttgg tatctgcgct 780

ctgctgaagc cagttacctt cggaaaaaga gttggtagct cttgatccgg caaacaaacc 840

accgctggta gcggtggttt ttttgtttgc aagcagcaga ttacgcgcag aaaaaaagga 900

tctcaagaag atcctttgat cttttctacg gggtctgacg ctcagtggaa cgaaaactca 960

cgttaaggga ttttggtcat gagattatca aaaaggatct tcacctagat ccttttaaat 1020

taaaaatgaa gttttaaatc aatctaaagt atatatgagt aaacttggtc tgacagttac 1080

caatgcttaa tcagtgaggc acctatctca gcgatctgtc tatttcgttc atccatagtt 1140

gcctgactcc ccgtcgtgta gataactacg atacgggagg gcttaccatc tggccccagt 1200

gctgcaatga taccgcgaga accacgctca ccggctccag atttatcagc aataaaccag 1260

ccagccggaa gggccgagcg cagaagtggt cctgcaactt tatccgcctc catccagtct 1320

attaattgtt gccgggaagc tagagtaagt agttcgccag ttaatagttt gcgcaacgtt 1380

gttgccattg ctacaggcat cgtggtgtca cgctcgtcgt ttggtatggc ttcattcagc 1440

tccggttccc aacgatcaag gcgagttaca tgatccccca tgttgtgcaa aaaagcggtt 1500

agctccttcg gtcctccgat cgttgtcaga agtaagttgg ccgcagtgtt atcactcatg 1560

gttatggcag cactgcataa ttctcttact gtcatgccat ccgtaagatg cttttctgtg 1620

actggtgagt actcaaccaa gtcattctga gaatagtgta tgcggcgacc gagttgctct 1680

tgcccggcgt caatacggga taataccgcg ccacatagca gaactttaaa agtgctcatc 1740

attggaaaac gttcttcggg gcgaaaactc tcaaggatct taccgctgtt gagatccagt 1800

tcgatgtaac ccactcgtgc acccaactga tcttcagcat cttttacttt caccagcgtt 1860

tctgggtgag caaaaacagg aaggcaaaat gccgcaaaaa agggaataag ggcgacacgg 1920

aaatgttgaa tactcatact cttccttttt caatattatt gaagcattta tcagggttat 1980

tgtctcatga gcggatacat atttgaatgt atttagaaaa ataaacaaat aggggttccg 2040

cgcacatttc cccgaaaagt gccacctaaa ttgtaagcgt taatattttg ttaaaattcg 2100

cgttaaattt ttgttaaatc agctcatttt ttaaccaata ggccgaaatc ggcaaaatcc 2160

cttataaatc aaaagaatag accgagatag ggttgagtgg ccgctacagg gcgctcccat 2220

tcgccattca ggctgcgcaa ctgttgggaa gggcgtttcg gtgcgggcct cttcgctatt 2280

acgccagctg gcgaaagggg gatgtgctgc aaggcgatta agttgggtaa cgccagggtt 2340

ttcccagtca cgacgttgta aaacgacggc cagtgagcgc gacgtaatac gactcactat 2400

agggcgaatt ggcggaaggc cgtcaaggcc gcatgaattc gctaccggga agttcctatt 2460

ccgaagttcc tattctctag aaagtatagg aacttcaggt actcaggtac 2510

<210> 757
<211> 785
<212> DNA
<213> Artificial Sequence

<220>
<223> V-C entry TRAV7_TRAC_FRT-F3

<400> 757
gccaccatgg agaagatgcg tagacctgtc ctaattatat tttgtctatg tcttggctgg 60

gcaaatggag aaaaccaggt ggagcacagc cctcattttc tgggacccca gcagggagat 120

gttgcctcca tgagctgcac gtactctgtc agtcgtttta acaatttgca gtggtacagg 180

caaaatacag ggatgggtcc caaacaccta ttatccatgt attcagctgg atatgagaag 240

cagaaaggaa ggctaaatgc tacattactg aagaatggaa gcagcttgta cattacagcc 300

gtgcagcctg aagattcagc cacctatttc tgcagagacc ttgcggccgc ataggtctca 360

ccagaaccct gaccctgccg tgtaccagct gagagactct aaatccagtg acaagtctgt 420

ctgcctattc accgattttg attctcaaac aaatgtgtca caaagtaagg attctgatgt 480

gtatatcaca gacaaaactg tgctagacat gaggtctatg gacttcaaga gcaacagtgc 540

tgtggcctgg agcaacaaat ctgactttgc atgtgcaaac gccttcaaca acagcattat 600

tccagaggac accttcttcc ccagcccaga aagttcctgt gatgtcaagc tggtcgagaa 660

aagctttgaa acagatacga acctaaactt tcaaaacctg tcagtgattg ggttccgaat 720

cctcctcctg aaagtggccg ggtttaatct gctcatgacg ctgcggctgt ggtccagctg 780

actag 785

<210> 758
<211> 788
<212> DNA
<213> Artificial Sequence

<220>
<223> V-C entry TRAV8-2_TRAC_FRT-F3

<400> 758
gccaccatgc tcctgctgct cgtcccagtg ctcgaggtga tttttactct gggaggaacc 60

agagcccagt cggtgaccca gcttgacagc cacgtttctg tctctgaagg aaccccggtg 120

ctgctgaggt gcaactactc atcttcttat tcaccatctc tcttctggta tgtgcaacac 180

cccaacaaag gactccagct tctcctgaag tacacatcag cggccaccct ggttaaaggc 240

atcaacggtt ttgaggctga atttaagaag agtgaaacct ccttccacct gacgaaaccc 300

tcagcccata tgagcgacgc ggctgagtac ttctgcagag accttgcggc cgcataggtc 360

tcaccagaac cctgaccctg ccgtgtacca gctgagagac tctaaatcca gtgacaagtc 420

tgtctgccta ttcaccgatt ttgattctca aacaaatgtg tcacaaagta aggattctga 480

tgtgtatatc acagacaaaa ctgtgctaga catgaggtct atggacttca agagcaacag 540

tgctgtggcc tggagcaaca aatctgactt tgcatgtgca aacgccttca acaacagcat 600

tattccagag gacaccttct tccccagccc agaaagttcc tgtgatgtca agctggtcga 660

gaaaagcttt gaaacagata cgaacctaaa ctttcaaaac ctgtcagtga ttgggttccg 720

aatcctcctc ctgaaagtgg ccgggtttaa tctgctcatg acgctgcggc tgtggtccag 780

ctgactag 788

<210> 759
<211> 784
<212> DNA
<213> Artificial Sequence

<220>
<223> V-C entry TRAV8-4_TRAC_FRT-F3

<400> 759
gccaccatgc tcctgctgct cgtcccagtg ctcgaggtga tttttaccct gggaggaacc 60

agagcccagt cggtgaccca gcttggcagc cacgtttctg tctctgaagg agccctggtt 120

ctgctgaggt gcaactactc atcgtctgtt ccaccatatc tcttctggta tgtgcaatac 180

cccaaccaag gactccagct tctcctgaag tacacatcag cggccaccct ggttaaaggc 240

atcaacggtt ttgaggctga atttaagaag agtgaaacct ccttccacct gacgaaaccc 300

tcagcccata tgagcgacgc ggctgagtac ttctgcagag accttgcggc cgcataggtc 360

tcaccagaac cctgaccctg ccgtgtacca gctgagagac tctaaatcca gtgacaagtc 420

tgtctgccta ttcaccgatt ttgattctca aacaaatgtg tcacaaagta aggattctga 480

tgtgtatatc acagacaaaa ctgtgctaga catgaggtct atggacttca agagcaacag 540

tgctgtggcc tggagcaaca aatctgactt tgcatgtgca aacgccttca acaacagcat 600

tattccagag gacaccttct tccccagccc agaaagttcc tgtgatgtca agctggtcga 660

gaaaagcttt gaaacagata cgaacctaaa ctttcaaaac ctgtcagtga ttgggttccg 720

aatcctcctc ctgaaagtgg ccgggtttaa tctgctcatg acgctgcggc tgtggtccag 780

ctga 784

<210> 760
<211> 778
<212> DNA
<213> Artificial Sequence

<220>
<223> V-C entry TRAV18_TRAC_FRT-F3

<400> 760
gccaccatgc tgtctgcttc ctgctcagga cttgtgatct tgttgatatt cagaaggacc 60

agtggagact cggttaccca gacagaaggc ccagttaccc tccctgagag ggcagctctg 120

acattaaact gcacttatca gtccagctat tcaacttttc tattctggta tgtccagtat 180

ctaaacaaag agcctgagct cctcctgaaa agttcagaaa accaggagac tgacagcaga 240

ggttttcagg ccagtcctat caagagtgac agttccttcc acctggagaa gccctcggtg 300

cagctgtcgg actctgccgt gtactactgc agagaccttg cggccgcata ggtctcacca 360

gaaccctgac cctgccgtgt accagctgag agactctaaa tccagtgaca agtctgtctg 420

cctattcacc gattttgatt ctcaaacaaa tgtgtcacaa agtaaggatt ctgatgtgta 480

tatcacagac aaaactgtgc tagacatgag gtctatggac ttcaagagca acagtgctgt 540

ggcctggagc aacaaatctg actttgcatg tgcaaacgcc ttcaacaaca gcattattcc 600

agaggacacc ttcttcccca gcccagaaag ttcctgtgat gtcaagctgg tcgagaaaag 660

ctttgaaaca gatacgaacc taaactttca aaacctgtca gtgattgggt tccgaatcct 720

cctcctgaaa gtggccgggt ttaatctgct catgacgctg cggctgtggt ccagctga 778

<210> 761
<211> 790
<212> DNA
<213> Artificial Sequence

<220>
<223> V-C entry TRAV38-2DV8_TRAC_FRT-F3

<400> 761
gccaccatgg catgccctgg cttcctgtgg gcacttgtga tctccacctg tcttgaattt 60

agcatggctc agacagtcac tcagtctcaa ccagagatgt ctgtgcagga ggcagaaacg 120

gtgaccctga gctgcacata tgacaccagt gagagtgatt attatttatt ctggtacaag 180

cagcctccca gcaggcagat gattctcgtt attcgccaag aagcttataa gcaacagaat 240

gcaacagaga atcgtttctc tgtgaacttc cagaaagcag ccaaatcctt cagtctcaag 300

atctcagact cacagctggg ggatgccgcg atgtatttct gcagagacct tgcggccgca 360

taggtctcac cagaaccctg accctgccgt gtaccagctg agagactcta aatccagtga 420

caagtctgtc tgcctattca ccgattttga ttctcaaaca aatgtgtcac aaagtaagga 480

ttctgatgtg tatatcacag acaaaactgt gctagacatg aggtctatgg acttcaagag 540

caacagtgct gtggcctgga gcaacaaatc tgactttgca tgtgcaaacg ccttcaacaa 600

cagcattatt ccagaggaca ccttcttccc cagcccagaa agttcctgtg atgtcaagct 660

ggtcgagaaa agctttgaaa cagatacgaa cctaaacttt caaaacctgt cagtgattgg 720

gttccgaatc ctcctcctga aagtggccgg gtttaatctg ctcatgacgc tgcggctgtg 780

gtccagctga 790

<210> 762
<211> 775
<212> DNA
<213> Artificial Sequence

<220>
<223> V-C entry TRAV39_TRAC_FRT-F3

<400> 762
gccaccatga agaagctact agcaatgatt ctgtggcttc aactagaccg gttaagtgga 60

gagctgaaag tggaacaaaa ccctctgttc ctgagcatgc aggagggaaa aaactatacc 120

atctactgca attattcaac cacttcagac agactgtatt ggtacaggca ggatcctggg 180

aaaagtctgg aatctctgtt tgtgttgcta tcaaatggag cagtgaagca ggagggacga 240

ttaatggcct cacttgatac caaagcccga ctcagcaccc tccacatcac agctgccgtg 300

catgacctct ctgccaccta cttctgcaga gaccttgcgg ccgcataggt ctcaccagaa 360

ccctgaccct gccgtgtacc agctgagaga ctctaaatcc agtgacaagt ctgtctgcct 420

attcaccgat tttgattctc aaacaaatgt gtcacaaagt aaggattctg atgtgtatat 480

cacagacaaa actgtgctag acatgaggtc tatggacttc aagagcaaca gtgctgtggc 540

ctggagcaac aaatctgact ttgcatgtgc aaacgccttc aacaacagca ttattccaga 600

ggacaccttc ttccccagcc cagaaagttc ctgtgatgtc aagctggtcg agaaaagctt 660

tgaaacagat acgaacctaa actttcaaaa cctgtcagtg attgggttcc gaatcctcct 720

cctgaaagtg gccgggttta atctgctcat gacgctgcgg ctgtggtcca gctga 775

<210> 763
<211> 760
<212> DNA
<213> Artificial Sequence

<220>
<223> V-C entry TRAV40_TRAC_FRT-F3

<400> 763
gccaccatga actcctctct ggactttcta attctgatct taatgtttgg aggaaccagc 60

agcaattcag tcaagcagac gggccaaata accgtatcgg agggagcatc tgtgactatg 120

aactgcacat acacatccac ggggtaccct acccttttct ggtatgtgga ataccccagc 180

aaacctctgc agcttcttca gagagagaca atggaaaaca gcaaaaactt cggaggcgga 240

aatattaaag acaaaaactc ccccattgtg aaatattcag tccaggtatc agactcagcc 300

gtgtactact gcagagacct tgcggccgca taggtctcac cagaaccctg accctgccgt 360

gtaccagctg agagactcta aatccagtga caagtctgtc tgcctattca ccgattttga 420

ttctcaaaca aatgtgtcac aaagtaagga ttctgatgtg tatatcacag acaaaactgt 480

gctagacatg aggtctatgg acttcaagag caacagtgct gtggcctgga gcaacaaatc 540

tgactttgca tgtgcaaacg ccttcaacaa cagcattatt ccagaggaca ccttcttccc 600

cagcccagaa agttcctgtg atgtcaagct ggtcgagaaa agctttgaaa cagatacgaa 660

cctaaacttt caaaacctgt cagtgattgg gttccgaatc ctcctcctga aagtggccgg 720

gtttaatctg ctcatgacgc tgcggctgtg gtccagctga 760

<210> 764
<211> 2501
<212> DNA
<213> Artificial Sequence

<220>
<223> V-Cb entry backbone F14/F15

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gccaccatcc tctatgagat cttgctaggg aaggccacct tgtatgccgt gctggtcagt 840

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gccaccttct ggcagaaccc ccgcaaccac ttccgctgtc aagtccagtt ctacgggctc 660

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tggtgggtga atgggaagga ggtgcacagt ggggtcagca cagacccgca gcccctcaag 540

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gacaagtttc tcatcaacca tgcaagcctg accttgtcca ctctgacagt gaccagtgcc 300

catcctgaag atagcagctt ctacatttgc agagaccttg cggccgcata ggtctcagtg 360

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gccacactgg tgtgcctggc cacaggcttc ttccccgacc acgtggagct gagctggtgg 480

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cccgccctca atgactccag atactgcctg agcagccgcc tgagggtgtc ggccaccttc 600

tggcagaacc cccgcaacca cttccgctgt caagtccagt tctacgggct ctcggagaat 660

gacgagtgga cccaggatag ggccaaaccc gtcacccaga tcgtcagcgc cgaggcctgg 720

ggtagagcag actgtggctt tacctcggtg tcctaccagc aaggggtcct gtctgccacc 780

atcctctatg agatcctgct agggaaggcc accctgtatg ctgtgctggt cagcgccctt 840

gtgttgatgg ccatggtcaa gagaaaggat ttctga 876

<210> 777
<211> 519

<212> DNA
<213> Artificial Sequence

<220>
<223> Bidirectional terminator element (Esp3I to Esp3I site)

<400> 777
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taaaaaacct ccacacctcc ccctgaacct gaaacataaa atgaatgcaa ttgttgttgt 120

taacttgttt attgcagctt ataatggtta caaataaagc aatagcatca caaatttcac 180

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agcatgcctg ctattgtcta cccaatcctc ccccttgctg tcctgcccca ccccaccccc 360

cagaatagaa tgacacctac tcagacaatg cgttgcaatt tcctcatttt attaggaaag 420

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tggctggcaa ctagaaggca cagtcgcaag gtcgagacg 519

<210> 778
<211> 825
<212> DNA
<213> Artificial Sequence

<220>
<223> TRA ORF

<400> 778
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aactgcagtt tcactgatag cgctatttac aacctccagt ggtttaggca ggaccctggg 180

aaaggactca catctctgtt gcttattcag tcaagtcaga gagagcaaac aagtggacgc 240

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cctggtgact cagccaccta cctctgcgcc gtgaggccaa ccagcggcgg cagctacatc 360

ccaacctttg gaagaggaac cagccttatt gttcatccgt atatccagaa ccctgaccct 420

gccgtgtacc agctgagaga ctctaaatcc agtgacaagt ctgtctgcct attcaccgat 480

tttgattctc aaacaaatgt gtcacaaagt aaggattctg atgtgtatat cacagacaaa 540

actgtgctag acatgaggtc tatggacttc aagagcaaca gtgctgtggc ctggagcaac 600

aaatctgact ttgcatgtgc aaacgccttc aacaacagca ttattccaga ggacaccttc 660

ttccccagcc cagaaagttc ctgtgatgtc aagctggtcg agaaaagctt tgaaacagat 720

acgaacctaa actttcaaaa cctgtcagtg attgggttcc gaatcctcct cctgaaagtg 780

gccgggttta atctgctcat gacgctgcgg ctgtggtcca gctga 825

<210> 779
<211> 936
<212> DNA
<213> Artificial Sequence

<220>
<223> TRB ORF

<400> 779
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cagtgtgccc aggatatgaa ccatgaatac atgtcctggt atcgacaaga cccaggcatg 180

gggctgaggc tgattcatta ctcagttggt gctggtatca ctgaccaagg agaagtcccc 240

aatggctaca atgtctccag atcaaccaca gaggatttcc cgctcaggct gctgtcggct 300

gctccctccc agacatctgt gtacttttgc gccagcagct acgtgggcaa caccggcgaa 360

ctgttctttg gagaaggctc taggctgacc gtactggagg acctgaaaaa cgtgttccca 420

cccgaggtcg ctgtgtttga gccatcagaa gcagagatct cccacaccca aaaggccaca 480

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ctcaatgact ccagatactg cctgagcagc cgcctgaggg tgtcggccac cttctggcag 660

aacccccgca accacttccg ctgtcaagtc cagttctacg ggctctcgga gaatgacgag 720

tggacccagg atagggccaa acccgtcacc cagatcgtca gcgccgaggc ctggggtaga 780

gcagactgtg gcttcacctc cgagtcttac cagcaagggg tcctgtctgc caccatcctc 840

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atggccatgg tcaagagaaa ggattccaga ggctag 936

<210> 780
<211> 10

<212> PRT
<213> Cytomegalovirus

<220>
<223> HLA-B*07:02 restricted HCMV pp65 antigen

<400> 780
Thr Pro Arg Val Thr Gly Gly Gly Ala Met
1               5                   10

<210> 781
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> CMV-B.07:02-TPRVT-pp65 (PE) dextramer

<400> 781
Thr Pro Arg Val Thr
1               5

<210> 782
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> HLA-B*07:02-TPRV tetramer reagent

<400> 782
Thr Pro Arg Val
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<210> 783
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> HLA-A2*01- NLVPMVATV tetramer reagent

<400> 783
Asn Leu Val Pro Met Val Ala Thr Val
1               5

<210> 784
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> HLA-A*02:01–SLLMWITQV tetramer reagent

<400> 784
Ser Leu Leu Met Trp Ile Thr Gln Val
1               5