SEQUENCE LISTING

<110> Universität Basel

<120> Immunologically Discernible Cell Surface Variants for Use in Cell Therapy

<130> uz331

<160> 32

<170> PatentIn version 3.5

<210> 1
<211> 20
<212> DNA
<213> Mus musculus

<400> 1
gttttgtgag cttcaagtct 20

<210> 2
<211> 20
<212> DNA
<213> Mus musculus

<400> 2
gtttgtgagc ttcgagtctc 20

<210> 3
<211> 20
<212> DNA
<213> Mus musculus

<400> 3
ggctaatact tcaatttgtt 20

<210> 4
<211> 20
<212> DNA
<213> Mus musculus

<400> 4
ttggagtgga aaacagaaaa 20

<210> 5

<211> 20
<212> DNA
<213> Mus musculus

<400> 5
aacaaaaaac cttgatttca 20

<210> 6
<211> 20
<212> DNA
<213> Mus musculus

<400> 6
aaacaaaaaa ccttgatttc 20

<210> 7
<211> 180
<212> DNA
<213> Mus musculus

<400> 7
cgtcaccctc tccaaccagc cctatatcaa ggtccttacc ctagccaact tcaccaccaa 60

ggatgagggc gactactttt gtgagcttcg agtctcgggc gcgaatccca tgagctccaa 120

taaaagtatc agtgtgtata gaggtgagac tggttcccag aaagataaaa tgtccaggtt 180

<210> 8
<211> 180
<212> DNA
<213> Mus musculus

<400> 8
cgtcaccctc tccaaccagc cctatatcaa ggtccttacc ctagccaact tcaccaccaa 60

ggatgagggc gactactttt gtgagcttcg agtctcaggc gcgaatccca tgagctccaa 120

taaaagtatc agtgtgtata gaggtgagac tggttcccag aaagataaaa tgtccaggtt 180

<210> 9
<211> 179
<212> DNA
<213> Mus musculus

<400> 9
cgtcaccctc tccaaccagc cctatatcaa ggtccttacc ctagccaact tcaccaccaa 60

ggatgagggc gactactttt gtgagcttcg agtaagcgga gcgaatccca tgagctccaa 120

taaaagtatc agtgtgtata gaggtgagac tggttcccag aaagataaaa tgtccaggt 179

<210> 10
<211> 2000
<212> DNA
<213> Mus musculus

<400> 10
aaatggggac ccacctgtcc taccagctgg ctgacctgta gctttcccca ccacagaatc 60

caagtcggaa ctcttggcac catgaaccca gccatcagcg tcgctctcct gctctcaggt 120

actgggcaag ggtcagggct ggcattctaa ggaatctggc ttcctcccat cccgggaagt 180

agcctctttg ccatagtctc aggggcacag gtggttggga ggtgcggggg tggggagtgg 240

ggaggagcct caacctcacc agtggtggtc tttgacatat tagaaactcc ataatggatc 300

taggaactcc tcttgctggg tggtggtggt tgtggtacac acctttaatc tcagcactca 360

ggaggcagag tcaggtggat ctgttagtct gaagccagcc tggtctacag agcaaattcc 420

aggacagcca gagctattct caagatagag aatccctttc ttgaaaaaac catttaaaaa 480

caaaaacaaa agcaacacac tcctcttgat ctcctgttct tgaaacacat tgttgggacc 540

cagaacttca gtagattgat ggaagttgga gtctgcaagt ggtggaacat cccaccaata 600

cctcaagggc gagtgcaaac cccacatccc cccagctcaa gtctactttt cctgcaggtg 660

ggaggccccg ggtctgtgtc tccccaaatt cagagaaggc actgctgtgc cagtcttgca 720

ggtgtcccga gggcagaagg tgaccagcct gacagcctgc ctggtgaacc aaaaccttcg 780

cctggactgc cgccatgaga ataacaccaa ggataactcc atccagcatg agttcagcct 840

gacccgagag aagaggaagc acgtgctctc aggcaccctt gggatacccg agcacacgta 900

ccgctcccgc gtcaccctct ccaaccagcc ctatatcaag gtccttaccc tagccaactt 960

caccaccaag gatgagggcg actacttttg tgagcttcga gtctcaggcg cgaatcccat 1020

gagctccaat aaaagtatca gtgtgtatag aggtgagact ggttcccaga aagataaaat 1080

gtccaggtta gccaggctgg ggtagccaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaac 1140

aggcacctcc attacccttc ccctaactgc tggtctcctg ggaaactgct gctgtctatg 1200

tgagtggggc aagattaggg gccagaaagg gggagcttgt agtaaaagca cagttgagga 1260

aactaaatgg gaaaggcagt acagtggtga ttcttgtggt gtggaggttc tgttacagca 1320

tccggtggag ccgctaagat gagaaagcgc cagctagctg ccttgaacag ctgacacctg 1380

tctttgcccg cctgagtcct gatctcccct cctcccggca ccccttctct atccacagac 1440

aagctggtca agtgtggcgg cataagcctg ctggttcaga acacatcctg gatgctgctg 1500

ctgctgcttt ccctctccct cctccaagcc ctggacttca tttctctgtg actggttggg 1560

cccaaggaga aacaggagcc ctcgaggtcc ttcctctgca gaggtcttgc ttctcccggt 1620

cagctgactc cctccccaag tccttcaaat atctcagaac atggggagaa acggggacct 1680

tgtccctcct aaggaacccc agtgctgcat gccatcatcc cccccaccct cgcccccacc 1740

cccgccactt ctccctccat gcataccact agctgtcatt ttgtactctg tatttattcc 1800

agggctgctt ctgattattt agtttgttct ttccctggag acctgttaga acataagggc 1860

gtatggtggg taggggaggc aggatatcag tccctggggc gagttcctcc ctgccaacca 1920

agccagatgc ctgaaagaga tatggatgag ggaagttgga ctgtgcctgt acctggtaca 1980

gtcatactct gttgaaagaa 2000

<210> 11
<211> 3679
<212> DNA
<213> Mus musculus

<400> 11
accccatcaa aatcctattt gagtgtacgg ttcggagaac ctcatttatc cggtaaatgt 60

cttttactct gctctcaggg agctgaggca ggacatcctg agatacattg ggagaggaga 120

tacagtttca ataaaataat aggttgggtg gaggtacatg cctataatgc caccactcag 180

gaaatggtgg cagcttcgtg agtttgaggc caacccaaga aacatagtga aaccctgtca 240

gtaaataagt aagcaagtat ttgagtatct actatatgct agggctgacc tggacattag 300

gggtcatctt ctgaacaaac tagtgcttga gggaggtatt tggggttttt gtttgtttaa 360

tggatctgaa tgagttccag agactggcta cacagcgata tgactgagct taacacccct 420

aaagcataca gtcagaccaa ttagacaata aaaggtatgt atagcttacc aaataaaaaa 480

attgtatttt caagagagtg tctgtctgtg tagccctggc tgttcttgaa ctcactctgt 540

agaccaggct ggcctggaaa tccatctgcc tgcctctgcc tctctgcctc tctgcctctc 600

tgcctctctc tctgcctctc tctgcctctc tctgcccctc tctgcccctc tctgcccctc 660

tctgcccctc tctgccgccc tctgccttct gccctctgcc ctctggcctc tggcctctgc 720

cctctgccct ctggcctctg gcctctgcct ctgcctcttg agtgctggaa tcaaaggtgt 780

gagctctgta ggtcttaagt tccagaagaa agtaatgaag tcacccagca gggaggtgct 840

cagggacagc acagacacac acccaggaca taggctccca cttccttggc tttctctgag 900

tggcaaagga ccttaggcag tgtcactccc taagagaagg ggataaagag aggggctgag 960

gtattcatca tgtgctccgt ggatctcaag ccctcaaggt aaatggggac ccacctgtcc 1020

taccagctgg ctgacctgta gctttcccca ccacagaatc caagtcggaa ctcttggcac 1080

catgaaccca gccatcagcg tcgctctcct gctctcaggt actgggcaag ggtcagggct 1140

ggcattctaa ggaatctggc ttcctcccat cccgggaagt agcctctttg ccatagtctc 1200

aggggcacag gtggttggga ggtgcggggg tggggagtgg ggaggagcct caacctcacc 1260

agtggtggtc tttgacatat tagaaactcc ataatggatc taggaactcc tcttgctggg 1320

tggtggtggt tgtggtacac acctttaatc tcagcactca ggaggcagag tcaggtggat 1380

ctgttagtct gaagccagcc tggtctacag agcaaattcc aggacagcca gagctattct 1440

caagatagag aatccctttc ttgaaaaaac catttaaaaa caaaaacaaa agcaacacac 1500

tcctcttgat ctcctgttct tgaaacacat tgttgggacc cagaacttca gtagattgat 1560

ggaagttgga gtctgcaagt ggtggaacat cccaccaata cctcaagggc gagtgcaaac 1620

cccacatccc cccagctcaa gtctactttt cctgcaggtg ggaggccccg ggtctgtgtc 1680

tccccaaatt cagagaaggc actgctgtgc cagtcttgca ggtgtcccga gggcagaagg 1740

tgaccagcct gacagcctgc ctggtgaacc aaaaccttcg cctggactgc cgccatgaga 1800

ataacaccaa ggataactcc atccagcatg agttcagcct gacccgagag aagaggaagc 1860

acgtgctctc aggcaccctt gggatacccg agcacacgta ccgctcccgc gtcaccctct 1920

ccaaccagcc ctatatcaag gtccttaccc tagccaactt caccaccaag gatgagggcg 1980

actacttttg tgagcttcga gtctcaggcg cgaatcccat gagctccaat aaaagtatca 2040

gtgtgtatag aggtgagact ggttcccaga aagataaaat gtccaggtta gccaggctgg 2100

ggtagccaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaac aggcacctcc attacccttc 2160

ccctaactgc tggtctcctg ggaaactgct gctgtctatg tgagtggggc aagattaggg 2220

gccagaaagg gggagcttgt agtaaaagca cagttgagga aactaaatgg gaaaggcagt 2280

acagtggtga ttcttgtggt gtggaggttc tgttacagca tccggtggag ccgctaagat 2340

gagaaagcgc cagctagctg ccttgaacag ctgacacctg tctttgcccg cctgagtcct 2400

gatctcccct cctcccggca ccccttctct atccacagac aagctggtca agtgtggcgg 2460

cataagcctg ctggttcaga acacatcctg gatgctgctg ctgctgcttt ccctctccct 2520

cctccaagcc ctggacttca tttctctgtg actggttggg cccaaggaga aacaggagcc 2580

ctcgaggtcc ttcctctgca gaggtcttgc ttctcccggt cagctgactc cctccccaag 2640

tccttcaaat atctcagaac atggggagaa acggggacct tgtccctcct aaggaacccc 2700

agtgctgcat gccatcatcc cccccaccct cgcccccacc cccgccactt ctccctccat 2760

gcataccact agctgtcatt ttgtactctg tatttattcc agggctgctt ctgattattt 2820

agtttgttct ttccctggag acctgttaga acataagggc gtatggtggg taggggaggc 2880

aggatatcag tccctggggc gagttcctcc ctgccaacca agccagatgc ctgaaagaga 2940

tatggatgag ggaagttgga ctgtgcctgt acctggtaca gtcatactct gttgaaagaa 3000

tcatcgggga gggggggggg ggctcaagat gggagagctc tgctgagcct ttgtggacca 3060

tccaatgagg atgagggctt agattctacc aggtcattct cagccaccac acacaagcgc 3120

tctgccatca ctgaagaagc cccctagggc tcttgggcca gggcacactc agtaaagatg 3180

caggttcagt cagggaatga tggggaaagg ggtaggaggt gggggaggga tcacccccctc 3240

ctctaaaaca cgagcctgct gtctccaaag gcctctgcct gtagtgaggg tggcagaaga 3300

agacaaggag ccagaactct gactccagga tctaagtccg tgcaggaagg ggatcctaga 3360

accatccggt tggacccagc ttaccaaggg agagccttta ttcttctttc ccttgcccct 3420

ctgtgccagc ccctcttgct gtccctgatc ccccagacag cgagagtctt gcaacctgcc 3480

tcttccaaga cctcctaatc tcaggggcag gcggtggagt gagatccggc gtgcacactt 3540

tttggaagat agctttccca aggatcctct cccccactgg cagctctgcc tgtcccatca 3600

ccatgtataa taccaccact gctacagcat ctcaccgagg aaagaaaact gcacaataaa 3660

accaagcctc tggagtgtg 3679

<210> 12
<211> 960
<212> DNA
<213> Mus musculus

<400> 12
cacattgttg ggacccagaa cttcagtaga ttgatggaag ttggagtctg caagtggtgg 60

aacatcccac caatacctca agggcgagtg caaaccccac atccccccag ctcaagtcta 120

cttttcctgc aggtgggagg ccccgggtct gtgtctcccc aaattcagag aaggcactgc 180

tgtgccagtc ttgcaggtgt cccgagggca gaaggtgacc agcctgacag cctgcctggt 240

gaaccaaaac cttcgcctga ctgccgccat gagaataaca ccaaggataa ctccatccag 300

catgagttca gcctgacccg agagaagagg aagcacgtgc tctcaggcac ccttgggata 360

cccgagcaca cgtaccgctc ccgcgtcacc ctctccaacc agccctatat caaggtcctt 420

accctagcca acttcaccac caaggatgag ggcgactact tttgtgagct tcgagtctca 480

ggcgcgaatc ccatgagctc caataaaagt atcagtgtgt atagaggtga gactggttcc 540

cagaaagata aaatgtccag gttagccagg ctggggtagc caataaaaaa aaaaaaaaaa 600

aaaaaaaaaa aaacaggcac ctccattacc cttcccctaa ctgctggtct cctgggaaac 660

tgctgctgtc tatgtgagtg gggcaagatt aggggccaga aaggggggagc ttgtagtaaa 720

agcacagttg aggaaactaa atgggaaagg cagtacagtg gtgattcttg tggtgtggag 780

gttctgttac agcatccggt ggagccgcta agatgagaaa gcgccagcta gctgccttga 840

acagctgaca cctgtctttg cccgcctgag tcctgatctc ccctcctccc ggcacccctt 900

ctctatccac agacaagctg gtcaagtgtg gcggcataag cctgctggtt cagaacacat 960

<210> 13
<211> 160
<212> DNA
<213> Mus musculus

<400> 13
cgtcaccctc tccaaccagc cctatatcaa ggtccttacc ctagccaact tcaccaccaa 60

ggatgagggc gactactttt gtgagcttcg agtctcaggc gcgaatccca tgagctccaa 120

taaaagtatc agtgtgtata gaggtgagac tggttcccag 160

<210> 14
<211> 120
<212> DNA
<213> Mus musculus

<400> 14
agtttgtctc tatacacact gatactttta ttggagctca tgggattcgc gcccgagact 60

tgaagctcac aaaagtagtc gccctcatcc ttggtggtga agttggctag ggtaaggacc 120

<210> 15
<211> 180
<212> DNA
<213> Mus musculus

<400> 15
accagcaggc ttatgccgcc acacttgacc agtttgtctc tatacacact gatactttta 60

ttggagctca tgggattcgc gcccgagact tgaagctcac aaaagtagtc gccctcatcc 120

ttggtggtga agttggctag ggtaaggacc ttgatatagg gctggttgga gagggtgacg 180

<210> 16
<211> 180
<212> DNA
<213> Mus musculus

<400> 16
gtttcctcca cagggactga caagttttcg ctacatgact gcacaccaaa agaaaaggct 60

aatacttcaa tttgtttaga gtggaaaaca gaaaaccttg atttcagaaa atgcaacagt 120

gacaatattt catatgtact ccactgtgag ccaggtacga tgctgggcag agaagttcta 180

<210> 17
<211> 1000
<212> DNA
<213> Mus musculus

<400> 17
caaatgggaa aaatcagccg tttatcttga tgtttccttg agttgcattt ataaaagcag 60

cacacatttc tactgaaatc tgtggtacga agaaaatatg ttatcttccc taatgaatgg 120

caaatatctg agttgataaa caaactgcca gcaagtggtg tctacacata tagatatatc 180

aaaacactaa taatgtgcac atatttgtat aattgtgcat cagctgaaat ggagataaat 240

taaaaattag gaatgtgact agatcatgaa gaagcatcag accttgggag agcttagatg 300

tcccctagcg aaatctcctg cttgcaagac tgtactccat gagtcttatt tcagagttga 360

gagggttcac atctccacac caggaaccat cacctaagag cacctctccg tttcctccac 420

agggactgac aagttttcgc tacatgactg cacaccaaaa gaaaaggcta atacttcaat 480

ttgtttagag tggaaaacag aaaaccttga tttcagaaaa tgcaacagtg acaatatttc 540

atatgtactc cactgtgagc caggtacgat gctgggcaga gaagttctat tatcagaaat 600

tattccagac gtggcttaaa tgttctttct gtagccttgt cctcctcacc caccctcagt 660

gatccgccat aaattagaat aaaataaccc tagtatctct ggcactgaaa caaattcaca 720

acgtagataa atgaaaagag caacccatgg atgataaata ttatgaaaaa ttaattaaaa 780

gaattttctt gagtactgtt atataccaga cattgttgaa agggtgatga gatgcaggca 840

ttataaaaga aagatggtat ccatagtctg tagaaaggaa gcatagtatt atccacaccg 900

gaggttgctt tctcagactt tcatacatga aaatcattgg aaagttcaag aatctgcagg 960

tagcaaggaa aacaagtgct tctaggaggg aacatgggtt 1000

<210> 18
<211> 1995
<212> DNA
<213> Mus musculus

<400> 18
atggtttaca gagcaagttt caagacagcc caggatacac agagaaaccc tgtctcaaaa 60

caaacaaaac aaaacaaaaa gcaaaaaaca caaaactaaa acaacataac aacaaaccat 120

caaaaagcag ttcctatgga ttagaaacag cctattttgt attttgtgaa ataattatac 180

ataagattgc tgtttttca ttttttctt tcttcttttt ggtatttctt tttaaattca 240

aaatgttctc attagagaaa agaatgtagt taaacatcta atgttttctg gaaaaaaaaa 300

tcaaaggggg aattctagtt atgttaatac caaagttgtg atcacagcac gtggaaggca 360

ggagtacctt atgtgttcaa agccagtcta tgctgtatct tgaattctgt ggcagccttc 420

acagtgtgag attacacctt gtttccaaaa ccccaaacag atcaacaaca agcgtgaaaa 480

cagcaaagaa attgtttttc aaatgggaaa aatcagccgt ttatcttgat gtttccttga 540

gttgcattta taaaagcagc acacatttct actgaaatct gtggtacgaa gaaaatatgt 600

tatcttccct aatgaatggc aaatatctga gttgataaac aaactgccag caagtggtgt 660

ctacacatat agatatatca aaacactaat aatgtgcaca tatttgtata attgtgcatc 720

agctgaaatg gagataaatt aaaaattagg aatgtgacta gatcatgaag aagcatcaga 780

ccttgggaga gcttagatgt cccctagcga aatctcctgc ttgcaagact gtactccatg 840

agtcttattt cagagttgag agggttcaca tctccacacc aggaaccatc acctaagagc 900

acctctccgt ttcctccaca gggactgaca agttttcgct acatgactgc acaccaaaag 960

aaaaggctaa tacttcaatt tgtttagagt ggaaaacaga aaaccttgat ttcagaaaat 1020

gcaacagtga caatatttca tatgtactcc actgtgagcc aggtacgatg ctgggcagag 1080

aagttctatt atcagaaatt attccagacg tggcttaaat gttctttctg tagccttgtc 1140

ctcctcaccc accctcagtg atccgccata aattagaata aaataaccct agtatctctg 1200

gcactgaaac aaattcacaa cgtagataaa tgaaaagagc aacccatgga tgataaatat 1260

tatgaaaaat taattaaaag aattttcttg agtactgtta tataccagac attgttgaaa 1320

gggtgatgag atgcaggcat tataaaagaa agatggtatc catagtctgt agaaaggaag 1380

catagtatta tccacaccgg aggttgcttt ctcagacttt catacatgaa aatcattgga 1440

aagttcaaga atctgcaggt agcaaggaaa acaagtgctt ctaggaggga acatgggttt 1500

ctctagaggt tggatctttt aaaacatata tttgaattca gtgaggtgga ctctttctcc 1560

tctaggcata cagctatgtg ccaggacaca cttgacaaga cagagggagg tacatacacc 1620

cagaggcgga agaggaaatt tcactctgat tgtaaacatt gtgctaacag gaaattgctg 1680

ggctaagata caaataggat gttcacagct ggaacaaata tatgttgagt taacattttt 1740

ttaaaaaatt ttaaataagt cacaatactg atttctcaac aaaattgagt atagcaatgt 1800

tatctgcagg atcttggttt attatttcac cattttcaga gacttgacct taacatgaag 1860

tcttaaacac atggtgccat aaaagaagcc catttactat gtggcatttc atatactcat 1920

gtgcaatact tacttctttc agaaaataat acaaaatgca ttagaagaaa tacattcata 1980

cctgaaagat gtcag 1995

<210> 19
<211> 4000
<212> DNA
<213> Mus musculus

<400> 19
ttaattcacc aagtattatt gaattgttga taacagacag atatatcata aacccgagtt 60

aatgataatg aacaaaatag actagttatg gttctcatgg acttttcaat ttagttggaa 120

agatagatac caaaccaata attatcatag tataaactgg gatcttttat aggagaaagg 180

atttcaaaat aatgatgtag gggtacatga tacagttctt ctatttttca tattcctgga 240

gatactgtgc tacaacctac aatctgcttt ggtgatattt tggtatatta cctctgctat 300

atgctaatta ttcttttact tctgcttgct gagtactgaa tttgaaaccc aaaatacact 360

tatttcatca gatcattctc tgtacaaaag aatatgttaa gacatttgta tccaatgtag 420

tatcattcat tctcgatgat gattgtacta atttcctttt ttttttttc cagctgccat 480

gtttgggaac attactgtga attacaccta tgaatctagt aatcagactt ttaaggcaga 540

cctcaaagat gtccaaaatg ctaagtgtgg aaatgaggat tgtgaaaacg tgttaaataa 600

tctagaagaa tgctcacaga taaaaaacat cagtgtgtct aatgactcat gtgctccagc 660

tacaactata gatttatatg taccaccagg tgaatgtcaa tttctctcta tctgggtatt 720

tagagcaaca gaaggatttc atgtatgtgt tcctgtgctt cttcaagcta atgtggtcag 780

aaaaaagaac cgagggaaag caagtgagct ttgataagag tgtgtttcct gctgagaacc 840

ccggagagca gagagaaata cacacttatt ccttaggacc accacctggc tctcttattt 900

cttttataaa gagattccca gctgggaagt ggtgtccctc accttcaatc tcagcacttc 960

agaggcagag gcaggcagat ctcagggttc caaggcagcc atggtttaca gagcaagttt 1020

caagacagcc caggatacac agagaaaccc tgtctcaaaa caaacaaaac aaaacaaaaa 1080

gcaaaaaaca caaaactaaa acaacataac aacaaaccat caaaaagcag ttcctatgga 1140

ttagaaacag cctattttgt attttgtgaa ataattatac ataagattgc tgtttttca 1200

ttttttctt tcttcttttt ggtatttctt tttaaattca aaatgttctc attagagaaa 1260

agaatgtagt taaacatcta atgttttctg gaaaaaaaaa tcaaaggggg aattctagtt 1320

atgttaatac caaagttgtg atcacagcac gtggaaggca ggagtacctt atgtgttcaa 1380

agccagtcta tgctgtatct tgaattctgt ggcagccttc acagtgtgag attacacctt 1440

gtttccaaaa ccccaaacag atcaacaaca agcgtgaaaa cagcaaagaa attgtttttc 1500

aaatgggaaa aatcagccgt ttatcttgat gtttccttga gttgcattta taaaagcagc 1560

acacatttct actgaaatct gtggtacgaa gaaaatatgt tatcttccct aatgaatggc 1620

aaatatctga gttgataaac aaactgccag caagtggtgt ctacacatat agatatatca 1680

aaacactaat aatgtgcaca tatttgtata attgtgcatc agctgaaatg gagataaatt 1740

aaaaattagg aatgtgacta gatcatgaag aagcatcaga ccttgggaga gcttagatgt 1800

cccctagcga aatctcctgc ttgcaagact gtactccatg agtcttattt cagagttgag 1860

agggttcaca tctccacacc aggaaccatc acctaagagc acctctccgt ttcctccaca 1920

gggactgaca agttttcgct acatgactgc acaccaaaag aaaaggctaa tacttcaatt 1980

tgtttagagt ggaaaacaga aaaccttgat ttcagaaaat gcaacagtga caatatttca 2040

tatgtactcc actgtgagcc aggtacgatg ctgggcagag aagttctatt atcagaaatt 2100

attccagacg tggcttaaat gttctttctg tagccttgtc ctcctcaccc accctcagtg 2160

atccgccata aattagaata aaataaccct agtatctctg gcactgaaac aaattcacaa 2220

cgtagataaa tgaaaagagc aacccatgga tgataaatat tatgaaaaat taattaaaag 2280

aattttcttg agtactgtta tataccagac attgttgaaa gggtgatgag atgcaggcat 2340

tataaaagaa agatggtatc catagtctgt agaaaggaag catagtatta tccacaccgg 2400

aggttgcttt ctcagacttt catacatgaa aatcattgga aagttcaaga atctgcaggt 2460

agcaaggaaa acaagtgctt ctaggaggga acatgggttt ctctagaggt tggatctttt 2520

aaaacatata tttgaattca gtgaggtgga ctctttctcc tctaggcata cagctatgtg 2580

ccaggacaca cttgacaaga cagagggagg tacatacacc cagaggcgga agaggaaatt 2640

tcactctgat tgtaaacatt gtgctaacag gaaattgctg ggctaagata caaataggat 2700

gttcacagct ggaacaaata tatgttgagt taacattttt ttaaaaaatt ttaaataagt 2760

cacaatactg atttctcaac aaaattgagt atagcaatgt tatctgcagg atcttggttt 2820

attatttcac cattttcaga gacttgacct taacatgaag tcttaaacac atggtgccat 2880

aaaagaagcc catttactat gtggcatttc atatactcat gtgcaatact tacttctttc 2940

agaaaataat acaaaatgca ttagaagaaa tacattcata cctgaaagat gtcagttgga 3000

caaccttcgt gcccaaacaa attacacatg tgtagcagaa atcttatatc gcggtgtaaa 3060

actcgtcaaa aatgttataa atgtgcagac agatttgggg agtaagtata tcgtttatgt 3120

ttataaaata aataaaattt ctttttcttt tatgggttta cttttatttt tggagagtca 3180

tagaaaataa tggtatagaa ttacagaaag catatcagtg aagaaaaaag tttaaatgca 3240

ctttaaggtc aattttaaaa actaggttat acaaacctaa ctaaagttct ttttctgttg 3300

ttcaaattgt gtctgccgta agtctggtag aaacacttga aatggtttac atagattatt 3360

cccattttat tcattttctc ctcccttctt tttataacac catttgttct gtattctaac 3420

acttctttca caattatgct ctgcttctaa tagaaataaa ataagcaaag aaactaataa 3480

aactcaagca aatctacatg tttaaacata aaatacggag tatagttatc aaattttggc 3540

aatagaatta ataaccggat aaaccttatt aaatagaaag gggttctact tgggaagtca 3600

gatgtgaaat tttcaaatta aatgtaacat ttgatggtaa atgctaattt tttaaaatgg 3660

tgattaatga ataatcaacc ataaagaaga caaaagatgt cattgctcac aagcagtaaa 3720

gacattttta gaaggaagag aagagaagca gtaggaaagg aggaagggag agatagatga 3780

tagatagata atagatagat agatagatag atagatagat agatagagac agacagacag 3840

acagaaagaa agagagagac agaaacagag agacacaaaa aaagaggaaa gagaagactg 3900

ggagaaaggg aaagtaaggg atggagaaaa aagggagaga gataaaaaga agacaaaaac 3960

ataaatgaaa gcaaggaatg atgatatata tctgttatgt 4000

<210> 20
<211> 57
<212> DNA
<213> Mus musculus

<400> 20
ttttgtgagc ttcgagtctc ggtcgcgaat cccatgagct ccaataaaag tatcagt 57

<210> 21
<211> 57
<212> DNA
<213> Mus musculus

<400> 21
ttttgtgagc ttcaagtctc ggtcgcgaat cccatgagct ccaataaaag tatcagt 57

<210> 22
<211> 63
<212> DNA
<213> Mus musculus

<400> 22
aaaaggctaa tacttcaatt tgtttggagt ggaaaacaaa aaaccttgat ttcagaaaat 60

gca 63

<210> 23
<211> 63
<212> DNA
<213> Mus musculus

<400> 23
aaaaggctaa tacttcaatt tgtttagagt ggaaaacaga aaaccttgat ttcagaaaat 60

gca 63

<210> 24
<211> 48

<212> DNA
<213> Mus musculus

<400> 24
ggctaatact tcaatttgtt tggagtggaa aacagaaaac cttgattt 48

<210> 25
<211> 48
<212> DNA
<213> Mus musculus

<400> 25
ggctaatact tcaatttgtt tggagtggaa aacaaaaaac cttgattt 48

<210> 26
<211> 64
<212> DNA
<213> Mus musculus

<400> 26
ggctaatact tcaatttgtt tggagtggaa aacaaaaaac cttgatttca gaaaatgcaa 60

cagt 64

<210> 27
<211> 64
<212> DNA
<213> Mus musculus

<400> 27
ggctaatact tcaatttgtt tagagtggaa aacagaaaac cttgatttca gaaaatgcaa 60

cagt 64

<210> 28
<211> 63
<212> DNA
<213> Mus musculus

<400> 28
gcctcaatgg acaagagctc ttgctgcatc gtagccacca gtactcaggg cagtgtgctc 60

ccg 63

<210> 29

<211> 63
<212> DNA
<213> Mus musculus

<400> 29
gcctcaatgg actagatatc ttgctgcatc gtagccacca gtactcaggg cagtgtgctc 60

ccg 63

<210> 30
<211> 63
<212> DNA
<213> Mus musculus

<400> 30
gcctcaatgg acaaaagagc tcttgctgca tcgtagccac cagtactcag ggcagtgtgc 60

tcc 63

<210> 31
<211> 34
<212> DNA
<213> Mus musculus

<400> 31
gcctcaatgg acaagagctc ttgctgcatc gtag 34

<210> 32
<211> 34
<212> DNA
<213> Mus musculus

<400> 32
gcctcaatgg actagatatc ttgctgcatc gtag 34