SEQUENCE LISTING

<110> Agency For Science, Technology And Research

<120> MODULATING THE INTERACTION BETWEEN ZO-2/TJP2 AND A SNAIL ZINC FINGER TRANSCRIPTION FACTOR FAMILY MEMBER

<130> 9869SG1910

<150> Singapore Patent Application No. 201201458-5
<151> 2012-02-29

<160> 29

<170> PatentIn version 3.5

<210> 1
<211> 4730
<212> DNA
<213> Artificial Sequence

<220>
<223> Tight Junction Protein 2 (ZO-2) of Canis lupus familiaris

<400> 1
caccaccctc accccacact gtaggggtac acagtgaggg gtacacggaa catctaaaag 60

cacaggggct ttgggtagcg caaagattac ttcgattgct tcagctgatc agtgcccaaa 120

atgtacatga ccttttactg agagagacaa gatgaggtac aagaagtaca tggccatcct 180

ggaagccgca gtgggtatca ccccacttaa caaaagagag cttcttcctg agagcagaag 240

acatgtgaat ctctggcagc accccggggt gcggagtacc acgttattat cgtctccctg 300

cgagtgggat tggcccttcg gctgtacctc ctggcacgag cattccacag agcacagacg 360

tgcgctggca ggcagcctgc ttttccaggc cccaggcatg gaagaactga tatgggagca 420

gtacactgtg accctacaaa aggattccaa aagaggattt ggaattgcag tgtccggagg 480

cagagacaac ccccactttg aaaatggaga aacgtcaatc gtcatttctg acgtgctacc 540

gggtgggcct gctgatgggc tgcttcaaga aaatgacagg gtggtcatgg ttaacggcac 600

ccccatggag gatgtgctcc attcatttgc tgtccagcag ctgagaaaaa gtgggaagat 660

cgctgccatt gtggtcaaga ggccccggaa ggtccagctg gccccgcccc agggcagcct 720

acccgtcgat gaggatgacc gtgcttttga ggtgatggat gagttcgatg gcagaagtgc 780

ccgcagcggg tacagcgaga ggagccggcg cagcagccac ggtgggcgca gccgcagctg 840

ggaggacagc ccggagaggg ggcgtcccca tgagcgggcg tggagccagg agcgcgagcg 900

cagccgtggc cggagcctgg agcggggcct ggaccatgac gatgactacc ggcggcctcg 960

agagcgcagc cggggccgga gcctggagcg gggcctggac catgacgatg actacgggcg 1020

gcccggagag cgcagccacg gcatgagcac tgacaggggc tacgaccgtg gctacgaccg 1080

tggctacgac cgtggctacg accgcaccta tagcccagag gccgagtatg gccgcaggac 1140

ccagcctgat gcccggcacg cagggtcccg gagccgcagc cgcgagcact tgcgctcccg 1200

cagccccagc cctgagctga gggggcggcc ggaccatgca ggccagcctg actcggacag 1260

gcccatcggg gtccttctga tgaaaagcaa agcaaatgaa gagtacggtc tccggcttgg 1320

gagtcagatc ttcataaagc aaatgaccag aaccgctctg gcaactaaag atggcaacct 1380
gcacgaagga gacataattc tcaagataaa tggaactgta actgagaaca tgtctttaac 1440
tgatgcccga aaactgatag aaaagtcaag aggaaaactc caactagtgg tgttgagaga 1500
cagcaagcaa acgctcatca acattccatc attaaatgac agcgactctg aaatagaaga 1560
tatctcagaa atagagtcaa accgatcatt ttctccagag gagagacggc agcagtattc 1620
cgactatgat tatcattcct caaatgaaaa actgaaggaa aggccaaatt caagagagga 1680
catgcagaac agatggtcca ggatgggcgc cacacccact ccctttaagt ccatggggga 1740
tattgcatct gtggttggca cagagaacag caaggaaccc agataccaag aggaaccacc 1800
agctcctcaa cctaaagcag ccccaagaac ttttcttcgc ccgagtcctg aagatgaagc 1860
aatatatggt cccaatacca aaatggtgag gtttaagaag ggagacagcg tgggactccg 1920
attggctggt ggcaatgacg ttgggatatt tgtggctggt attcaagagg gtacctcggc 1980
agaacaagaa ggccttcaag agggggacca gattctgaag gtgaacacac aggatttcag 2040
agggctagtt cgggaagatg ccgttctcta cctgctagaa atccctaaag gtgaaatggt 2100
gaccatttta gctcagagcc gagctgatgt gtatagagac atcctggctt gtggcagagg 2160
ggactcattt tttataagaa gccactttga atgtgagaag gaaactccac agagcctggc 2220
cttcagcagg ggggaggtct tccgagttgt agatacactg tatgatggca agctgggcca 2280
ctggctggct gtgaggattg gaaacgaatt ggagaagggc ttaatcccca acaaaagcag 2340
agctgaacaa atggccagtg ttcagaatgc ccagagagac aatgctgggg acagagcaga 2400
tttctggaga atgcgtggcc agagatctgg catgaagaag aacttaagga aaagtcggga 2460
agatctaaca gctgctgtgt cagttagcac caagttccca gcttacgaaa gggttttgct 2520
gcgagaagct ggtttcaaga gacctgtggt cttatttggc cctatagcag atatagcctt 2580
ggaaaagttg gcaaatgagt taccggacct gttccaaact gctaaaacgg aaccaaaaga 2640
tgcaggatcc gagaaatcta gtggggtggt ccggttaaat actgtgaggc aaattattga 2700
acaggataag catgcactat tggatgtgac tcctaaagct gtggacctgt tgaattatac 2760
tcagtggttc ccgattgtga ttttttttcaa cccagactct agacaaggtg tcaaaaccat 2820
gagacagagg ttgaatccaa catccaacaa aagttctcgg aagttgtatg atcaagccaa 2880
caagcttaag aaaacgtgtg cacatctttt tacagctact atcaacctaa attcagccaa 2940
tgatagctgg tttggcagct tgaaggacac aattcagcat cagcaaggag aagcagtttg 3000
ggtctctgaa ggaaagatgg aagggatgga tgatgaccct gaagaccgca tgtcctactt 3060
aactgccatg ggcgcagact atctgagttg cgacagccgc ctcatcagtg actttgaaga 3120
caccgacggt gaaggaggtg cctacactga caatgagctg gatgagccag ctgaggagcc 3180
actggtgtct tccatcaccc gctcctcgga gccggtgcag catgaggaga gcataaggaa 3240
gcccagcccc gagccacgag ctcagatgag gagggctgct agcagagatc aacttaggga 3300
cagtagtcca ccccccgcat tcaagccaga gccgcccaag gccaaaactc agaacagaga 3360

agaatccttt gacatctcca gatcccatga ctataagtca aacccctcag ccgttgctgg 3420

taatgaagtt tctggggcat ctaccagaag ctgtcctcct cctattgcag caaaaccttc 3480

ctttggaagg tctatactga agccctccac tcctgtccct tccccagaga gtgaggaggt 3540

gggagagggc agtgaagagc aagaaggcgc tcccaagtct gtcctgggca aagttaaaat 3600

atttgagaag atggatcaca aggcaagatt acagagaatg caggagcttc aagaagcaca 3660

gaatgcaagg attgaaattg ctcagaagca tcctgacatc tatgcagttc caatcaaaac 3720

acacaagcca gaccctggcc tgtcccagca cacaagttcc aggccacccg agccccagaa 3780

aggcccttcc aggctctacc aggatcccag aggaagttat ggcagtgatg ctgaagagga 3840

agaataccgc cagcagctgt ccgaacactc gaagcgtggc tattacagcc agccttcccg 3900

gtaccgggac acggaattat agatgcctga tagtcggcgt gtccgtctcc ccactgccac 3960

cacctcggag cagcgctccc actgagcatg cgacggttct ttctagggaa agtgcactgc 4020

ggagatttgg gaccctgaac tcccatttcc tcaaggggag ccccgggggc agccaatgca 4080

aataaaaact gagggctctg tttgtggaac tgggtcttga gagttgatgg ctttttgctc 4140

agaatcaaga gaaacactac agtctgatac tgttacctgc ttcagtggac caaaatttgt 4200

attaattctg tttgcgtatt tttaacatgt atattaagaa gtgataacta ttttccctca 4260

ttaatatctg cctttgagga ctgtttcaat gagagatgga atgtgaaaaa ggaattaaaa 4320

tgctgttgga ctcccaacta aattcaaaga aatattttat tacaactcta agtgcctttg 4380

atgagaagtg tcttaaatat tcttcctttg aagctttatg caaagccata atggactaag 4440

actattttga ctaaagtttt ataccagctt aataactatg gttttctctg cactgtgtca 4500

tcttttcaag gcatttgtct ttgtaatatt ttccataaac tctgtatata tagtagctac 4560

atgtggtagt tcagctacca gtgctaaata gcttgacgac caagaaattg gtatagaaat 4620

ttttgtttaa accatgtgct ccagaaaagc agatacttgg aaaaactgta tttccaaaag 4680

tgtgtgtatt gacaacagtt ttataattta ataaaaagga gattgaaatc 4730

<210> 2
<211> 4637
<212> DNA
<213> Artificial Sequence

<220>
<223> Tight Junction Protein 2 (ZO-2) isoform 1 of Mus musculus

<400> 2
ggcgggccgg ctgcgccgcg ggaggaggga caaaggggag gctcccggtg gtggcgaacc 60

gggtcctcca ctgcagcttg tagttctgag ccgcggcgag gaggacgtgc gggaagcgcg 120

cgcgagatgc cggtgcgggg agaccgcggg ttcccaccgc ggcgggagct gtcgggctgg 180

cagcgcggtc caggcatgga ggaggtgata tgggagcagt acaccgtgac cctgcagaag 240

gattccaaaa gaggatttgg aattgccgtg tcgggaggca gagacaaccc ccactttgaa 300

aatggggaga cgtcaatcgt catctcagat gtgctcccag gtggacccgc tgatggcttg 360

cttcaagaaa atgacagggt ggtcatggtc aatggcaccc ccatggaaga tgtgctccat 420

tcgtttgccg ttcagcagct taggaaaagt gggaagatag cagccatcgt ggtcaagaga 480

ccccggaagg ttcaggtggc cccactgcaa ggcagccccc ctctcagtca tgacgaccga 540

ggttttgaag tgattgaaga atttgatggc agaagtttcc gcagcggcta cagtgagagg 600

agtcggcaca gcagccacga catgctcagc cacagctggg agggcaatag ggagaggggg 660

cgaccccatc agcgcacaca gagccgggag cgggagcgca gccgtggcag gagcctggaa 720

cggggcctgg accaggaaga ctatgggcgc agccgtgagc gcagccgtgg ccggagcctg 780

gagcgcgggc tggaccgcga ctttgtgtcc agggaccaca gccgtggccg tagcatcgac 840

agggactacg accgagacta tgagcgctcc tatcacgaag cttatgaacc cgactacgga 900

ggcggctaca gcccatcata tgaccgtaga gcccatccag agacccgcta tgaacggagc 960

cgcagccgag aacacctacg ttcccgaagc cccagccccg agtctaggtc acggcatgaa 1020

cacaagggcc aacatgatcc cgacaggccc atcggggtcc ttctaaccaa aagcaaagca 1080

aatgaagagt atgggctccg gctggggagt cagatcttca tcaaagaaat gaccagaaca 1140

ggactggcca ccaaagatgg caaccttcat gaggggggaca taattctcaa gatcaacggc 1200

actgttactg agaacatgtc tctaacggat gctcggaagt taatagaaaa gtctcgagga 1260

aaactgcagc ttgtggtgtt gagagacagc aagcagaccc tcatcaacat cccagcccta 1320

aacgacagcg actctgaagt ggaggatatc tcggaaatag agtccaaccg gtctttctct 1380

ccagaggaga gacgccagca gtattctgat caggattacc attcctccac tgagaagctg 1440

aaggagaggc cgagctcaag agaggagacc tcaggcagac tatccaggat gggtgccact 1500

cccacgccgt tcaagtccac gggggacatc acagctgcgg gggtcacaga ggccagcagg 1560

gagcccaggt accaggaaga aggcccagtt cctcaaccca gaacagctcc aagagttttt 1620

cttcgtccta gtcccgaaga tgaagcaata tatggcccta acaccaaaat ggtgaggttc 1680

aagaagggag acagcgtggg cctccggttg gctggtggaa acgacgttgg gatatttgtg 1740

gctggcattc aggagggcac ctccgcagag caggagggcc tgcaagaagg agaccagatt 1800

ctgaaggtga acacacagga tttcagaggg ctagtccggg aagatgcggt cctctacctg 1860

ctagaaatcc ccaaaggtga aactgtgacc attttggctc agagccgagc agacgtgtac 1920

agagatatcc tggcttgtgg caggggagat tcgtttttca taagaagcca ctttgaatgt 1980

gagaaggaaa ctccccagag cctggccttc accaggggag aggtcttccg agtggtagac 2040

acgctgtacg atggcaagct gggccactgg ctggccgtga ggatcgggaa tgagctggag 2100

aaaggcttga tccctaacaa aagcagagcc gagcaaatgg ccagtgtcca gaatgcccag 2160

cgagagaacg ccggggacag agcagacttc tggcggatgc gtggccagag atccagcggc 2220

ggcgtcaaga agaacctccg caagagccgg gaagacctgg cggctgctgt atcggttagc 2280

tccaagttcc ctgcctacga gaaggttctg cttcgggaag ctggcttcaa gagacccgtg 2340

gttctgtttg gccccatagc agatatagca atggaaaggt tggcaactga gttaccagac 2400

ctgtttcaaa ctgcaaaaac agaacccaaa gatgccggat ctgagaaatc cagtggagtg 2460
gttcggttga ataccgtgag gcaaattatt gagcaggaca agcacgccct gctcgacgtt 2520
acccccaaag ctgtggacct gctcaactac actcagtggt tccctatcgt gattttcttc 2580
aacccggatt ccagacaagg tgttaaaacc ataaggcaga ggttgagtcc aacatccaat 2640
aaaagttctc gcaagttatt tgatcaagcc aacaagctca aaaagacctg ttctcatctt 2700
tttacagcca caatcaacgt gaattcagcc aacgatggct ggtttggcag cttgaaggac 2760
agcattcagc agcagcaaaa cgaagcagtc tgggtctctg aaggaaagat ggaagggatg 2820
gatgatgatg ctgaagaccg catgtcctac ttaaccgcca tgggcgcgga ctatctgagt 2880
tgtgacagcc gtctcatcag tgactttgaa gacaccgacg gcgagggagg cgcctacact 2940
gacaatgagc tagaggagcc ggcggaggag ccgctggtgt cttccatcac ccgctcctcg 3000
gagccggtgc agcacgagga gaacataagg aaatccagcc cagagccacg agctcagatg 3060
aggagggctg ctagcagaga ccaacttagg gatgctagcc cgcccccagc cttcaagcca 3120
gagccgccca aggcaagaag ccagaacaga gaagactcct tcgactactc caagtcaaac 3180
ctccccgcca cagccggcag tgaaatcccg gggggatcca ccaaaggcta tcctcccccc 3240
attgcagcga agcctgcctt tgggcggccc atcctgaagc cttccactcc agtccctatg 3300
cctgagagcg aggaggttgg agagagcacc gaggagcagg aagatgctcc cagatcagtc 3360
ctgggcagag tgaaaatatt cgagaagatg gaccacaagg caaaattaca gaggatgcag 3420
gagctccagg aggcccagaa tgcgaggatc gaaatagctc agaagcaccc tgacatctat 3480
gcggttccaa tcaaggcccc caagccagat gctggcctcc ccccgcacat gagttctaga 3540
cccccagagc cccagaaagc tccttccaga ctttaccagg acaccagagg aagctacggc 3600
agtgaccccg aggaggagga gtaccgccag cagttggcag cacactcgaa gcgtggttac 3660
tacagccagc cctcccggta ccgagacacg gagttataga gcttgtatgc gtggactcct 3720
gcgaggccac ctggagatct tctccagtta aaacgcactg cagagatacg gtggggaccc 3780
aggcaacaga tggcatgagt tatcaactga aggctctgtt tgtgggactg gagtgaagtt 3840
gattctgact ttcttgaatg aagagaaaca gtctgataac tgttacttgc tttggtgtgg 3900
accaagatct gtattaacct ctctgtattt tttaatatgt atatcgagca ataactatct 3960
ttcctcactc gtggctgcct tcctgcacag cttcagtgtg aagcagatgt gaagagggag 4020
ttaaaaaaaa aaaaaaaaaa aggactccgt ctcagactaa gttcagaagt attttatcac 4080
gactctctaa gtgcctttga caaaatgtgt ctcacgtttg cctccctccc tgacgcttca 4140
tgcaaaccca taatggacta aaactttatt ttgactaaat ttttatacca gtttagcagc 4200
tgtgactgcc cctgcaccat gccacctttt cagggcattg tctgtagtat tttccacaaa 4260
ttctgactgt acataggaca gcgaccctcg ggagtgtgtc tgcctatcaa ttctgcgtag 4320
ctcggaggcc aagattttag agtgtttgtc cgttgtctgg aaccacatat tccacaaagg 4380
cagagacttg agaaaagggt attttgtttc ctctctatca gagtatgtac tgacatcggg 4440

tggttttgta atttaataaa aaggagtaca agaatgagtt tagtgctgag tctctacaca 4500

ccttccttct gggcagtgtg gggggaaccc aaggtcctca tgcattcaga gtgctgcttc 4560

accactgaac tacaccccac tcttcctgat ttattttaat taaaaaaatt tttaaaaaga 4620

caaaaaaaaa aaaaaaa 4637

<210> 3
<211> 4627
<212> DNA
<213> Artificial Sequence

<220>
<223> Tight Junction Protein 2 (ZO-2) isoform 2 of Mus musculus

<400> 3
gagtcacaac aatacccagg aacggccggt ggcggaggtc actggctccc gcctgctgcg 60

gcagcccgcg gcactccgcc tccggacagg cgctgcccgc gctgcgccgc ccgacgcctg 120

ggaccgtcgc tttctgcgcg ctgactctgc tggctgccgc cgcccccctt ctccagggtc 180

caggcatgga ggaggtgata tgggagcagt acaccgtgac cctgcagaag gattccaaaa 240

gaggatttgg aattgccgtg tcgggaggca gagacaaccc ccactttgaa aatggggaga 300

cgtcaatcgt catctcagat gtgctcccag gtggacccgc tgatggcttg cttcaagaaa 360

atgacagggt ggtcatggtc aatggcaccc ccatggaaga tgtgctccat tcgtttgccg 420

ttcagcagct taggaaaagt gggaagatag cagccatcgt ggtcaagaga ccccggaagg 480

ttcaggtggc cccactgcaa ggcagccccc ctctcagtca tgacgaccga ggttttgaag 540

tgattgaaga atttgatggc agaagtttcc gcagcggcta cagtgagagg agtcggcaca 600

gcagccacga catgctcagc cacagctggg agggcaatag ggagaggggg cgaccccatc 660

agcgcacaca gagccgggag cgggagcgca gccgtggcag gagcctggaa cggggcctgg 720

accaggaaga ctatgggcgc agccgtgagc gcagccgtgg ccggagcctg gagcgcgggc 780

tggaccgcga ctttgtgtcc agggaccaca gccgtggccg tagcatcgac agggactacg 840

accgagacta tgagcgctcc tatcacgaag cttatgaacc cgactacgga ggcggctaca 900

gcccatcata tgaccgtaga gcccatccag agacccgcta tgaacggagc cgcagccgag 960

aacacctacg ttcccgaagc cccagccccg agtctaggtc acggcatgaa cacaagggcc 1020

aacatgatcc cgacaggccc atcggggtcc ttctaaccaa aagcaaagca aatgaagagt 1080

atgggctccg gctggggagt cagatcttca tcaaagaaat gaccagaaca ggactggcca 1140

ccaaagatgg caaccttcat gagggggaca taattctcaa gatcaacggc actgttactg 1200

agaacatgtc tctaacggat gctcggaagt taatagaaaa gtctcgagga aaactgcagc 1260

ttgtggtgtt gagagacagc aagcagaccc tcatcaacat cccagcccta aacgacagcg 1320

actctgaagt ggaggatatc tcggaaatag agtccaaccg gtctttctct ccagaggaga 1380

gacgccagca gtattctgat caggattacc attcctccac tgagaagctg aaggagaggc 1440

cgagctcaag agaggagacc tcaggcagac tatccaggat gggtgccact cccacgccgt 1500

tcaagtccac gggggacatc acagctgcgg gggtcacaga ggccagcagg gagcccaggt 1560
accaggaaga aggcccagtt cctcaaccca gaacagctcc aagagttttt cttcgtccta 1620
gtcccgaaga tgaagcaata tatggcccta acaccaaaat ggtgaggttc aagaagggag 1680
acagcgtggg cctccggttg gctggtggaa acgacgttgg gatatttgtg gctggcattc 1740
aggagggcac ctccgcagag caggagggcc tgcaagaagg agaccagatt ctgaaggtga 1800
acacacagga tttcagaggg ctagtccggg aagatgcggt cctctacctg ctagaaatcc 1860
ccaaaggtga aactgtgacc attttggctc agagccgagc agacgtgtac agagatatcc 1920
tggcttgtgg caggggagat tcgtttttca taagaagcca ctttgaatgt gagaaggaaa 1980
ctccccagag cctggccttc accaggggag aggtcttccg agtggtagac acgctgtacg 2040
atggcaagct gggccactgg ctggccgtga ggatcgggaa tgagctggag aaaggcttga 2100
tccctaacaa aagcagagcc gagcaaatgg ccagtgtcca gaatgcccag cgagagaacg 2160
ccggggacag agcagacttc tggcggatgc gtggccagag atccagcggc ggcgtcaaga 2220
agaacctccg caagagccgg gaagacctgg cggctgctgt atcggttagc accaagttcc 2280
ctgcctacga gaaggttctg cttcgggaag ctggcttcaa gagacccgtg gttctgtttg 2340
gccccatagc agatatagca atggaaaggt tggcaactga gttaccagac ctgtttcaaa 2400
ctgcaaaaac agaacccaaa gatgccggat ctgagaaatc cagtggagtg gttcggttga 2460
ataccgtgag gcaaattatt gagcaggaca agcacgccct gctcgacgtt acccccaaag 2520
ctgtggacct gctcaactac actcagtggt tccctatcgt gattttcttc aacccggatt 2580
ccagacaagg tgttaaaacc ataaggcaga ggttgagtcc aacatccaat aaaagttctc 2640
gcaagttatt tgatcaagcc aacaagctca aaaagacctg ttctcatctt tttacagcca 2700
caatcaacgt gaattcagcc aacgatggct ggtttggcag cttgaaggac agcattcagc 2760
agcagcaaaa cgaagcagtc tgggtctctg aaggaaagat ggaagggatg gatgatgatg 2820
ctgaagaccg catgtcctac ttaaccgcca tgggcgcgga ctatctgagt tgtgacagcc 2880
gtctcatcag tgactttgaa gacaccgacg gcgagggagg cgcctacact gacaatgagc 2940
tagaggagcc ggcggaggag ccgctggtgt cttccatcac ccgctcctcg gagccggtgc 3000
agcacgagga gaacataagg aaatccagcc cagagccacg agctcagatg aggagggctg 3060
ctagcagaga ccaacttagg gatgctagcc cgcccccagc cttcaagcca gagccgccca 3120
aggcaagaag ccagaacaga gaagactcct tcgactactc caagtcaaac ctccccgcca 3180
cagccggcag tgaaatcccg gggggatcca ccaaaggcta tcctcccccc attgcagcga 3240
agcctgcctt tgggcggccc atcctgaagc cttccactcc agtccctatg cctgagagcg 3300
aggaggttgg agagagcacc gaggagcagg aagatgctcc cagatcagtc ctgggcagag 3360
tgaaaatatt cgagaagatg gaccacaagg caaaattaca gaggatgcag gagctccagg 3420
aggcccagaa tgcgaggatc gaaatagctc agaagcaccc tgacatctat gcggttccaa 3480
tcaaggcccc caagccagat gctggcctcc ccccgcacat gagttctaga cccccagagc 3540

cccagaaagc tccttccaga ctttaccagg acaccagagg aagctacggc agtgaccccg 3600

aggaggagga gtaccgccag cagttggcag cacactcgaa gcgtggttac tacagccagc 3660

cctcccggta ccgagacacg gagttataga gcttgtatgc gtggactcct gcgaggccac 3720

ctggagatct tctccagtta aaacgcactg cagagatacg gtggggaccc aggcaacaga 3780

tggcatgagt tatcaactga aggctctgtt tgtgggactg gagtgaagtt gattctgact 3840

ttcttgaatg aagagaaaca gtctgataac tgttacttgc tttggtgtgg accaagatct 3900

gtattaacct ctctgtattt tttaatatgt atatcgagca ataactatct ttcctcactc 3960

gtggctgcct tcctgcacag cttcagtgtg aagcagatgt gaagagggag ttaaaaaaaa 4020

aaaaaaaaaa aggactccgt ctcagactaa gttcagaagt attttatcac gactctctaa 4080

gtgcctttga caaaatgtgt ctcacgtttg cctccctccc tgacgcttca tgcaaaccca 4140

taatggacta aaactttatt ttgactaaat ttttatacca gtttagcagc tgtgactgcc 4200

cctgcaccat gccacctttt cagggcattg tctgtagtat tttccacaaa ttctgactgt 4260

acataggaca gcgaccctcg ggagtgtgtc tgcctatcaa ttctgcgtag ctcggaggcc 4320

aagattttag agtgtttgtc cgttgtctgg aaccacatat tccacaaagg cagagacttg 4380

agaaaagggt attttgtttc ctctctatca gagtatgtac tgacatcggg tggttttgta 4440

atttaataaa aaggagtaca agaatgagtt tagtgctgag tctctacaca ccttccttct 4500

gggcagtgtg gggggaaccc aaggtcctca tgcattcaga gtgctgcttc accactgaac 4560

tacaccccac tcttcctgat ttatttttaat taaaaaaatt tttaaaaaga caaaaaaaaa 4620

aaaaaaa 4627

<210> 4
<211> 4725
<212> DNA
<213> Artificial Sequence

<220>
<223> Tight Junction Protein 2 (ZO-2) isoform 1 of Homo sapiens

<400> 4
gacgcggttc gccgcaggag cctcgaaggc gcggcgccgg cgagcccttc cccggcaggc 60

gcgtgggtgg tagcggccaa tttgacagtt tcccgggccg ggcggccagc gcggaggcgc 120

cacgctcggg tcgggggcgg gctgacgccg ccgccgccgc gggaggaggg acaaaggggt 180

gggtccccgc gggtcggcac cccggcggtt gggctgcggg tcagagcact gtccggtggt 240

gcccaggagg agtaggagca ggagcagaag cagaagcggg gtccggagct gcgcgcctac 300

gcgggacctg tgtccgaaat gccggtgcga ggagaccgcg ggtttccacc ccggcgggag 360

ctgtcaggtt ggctccgcgc cccaggcatg gaagagctga tatgggaaca gtacactgtg 420

accctacaaa aggattccaa aagaggattt ggaattgcag tgtccggagg cagagacaac 480

cccacttttg aaaatggaga aacgtcaatt gtcatttctg atgtgctccc gggtgggcct 540

gctgatgggc tgctccaaga aaatgacaga gtggtcatgg tcaatggcac ccccatggag 600

gatgtgcttc attcgtttgc agttcagcag ctcagaaaaa gtgggaaggt cgctgctatt 660

gtggtcaaga ggccccggaa ggtccaggtg gccgcacttc aggccagccc tcccctggat 720

caggatgacc gggcttttga ggtgatggac gagtttgatg gcagaagttt ccggagtggc 780

tacagcgaga ggagccggct gaacagccat ggggggcgca gccgcagctg ggaggacagc 840

ccggaaaggg ggcgtcccca tgagcgggcc cggagccggg agcgggacct cagccgggac 900

cggagccgtg gccggagcct ggagcggggc ctggaccaag accatgcgcg cacccgagac 960

cgcagccgtg gccggagcct ggagcggggc ctggaccacg actttgggcc atcccgggac 1020

cgggaccgtg accgcagccg cggccggagc attgaccagg actacgagcg agcctatcac 1080

cgggcctacg acccagacta cgagcgggcc tacagcccgg agtacaggcg cggggcccgc 1140

cacgatgccc gctctcgggg accccgaagc cgcagccgcg agcacccgca ctcacggagc 1200

cccagccccg agcctagggg gcggccgggg cccatcgggg tcctcctgat gaaaagcaga 1260

gcgaacgaag agtatggtct ccggcttggg agtcagatct tcgtaaagga aatgacccga 1320

acgggtctgg caactaaaga tggcaacctt cacgaaggag acataattct caagatcaat 1380

gggactgtaa ctgagaacat gtctttaacg gatgctcgaa aattgataga aaagtcaaga 1440

ggaaaactac agctagtggt gttgagagac agccagcaga ccctcatcaa catcccgtca 1500

ttaaatgaca gtgactcaga aatagaagat atttcagaaa tagagtcaaa ccgatcattt 1560

tctccagagg agagacgtca tcagtattct gattatgatt atcattcctc aagtgagaag 1620

ctgaaggaaa ggccaagttc cagagaggac acgccgagca gattgtccag gatgggtgcg 1680

acacccactc cctttaagtc cacaggggat attgcaggca cagttgtccc agagaccaac 1740

aaggaaccca gataccaaga ggacccccca gctcctcaac caaaagcagc cccgagaact 1800

tttcttcgtc ctagtcctga agatgaagca atatatggcc ctaataccaa aatggtaagg 1860

ttcaagaagg gagacagcgt gggcctccgg ttggctggtg gcaatgatgt cgggatattt 1920

gttgctggca ttcaagaagg gacctcggcg gagcaggagg gccttcaaga aggagaccag 1980

attctgaagg tgaacacaca ggatttcaga ggattagtgc gggaggatgc cgttctctac 2040

ctgttagaaa tccctaaagg tgaaatggtg accattttag ctcagagccg agccgatgtg 2100

tatagagaca tcctggcttg tggcagaggg gattcgtttt ttataagaag ccactttgaa 2160

tgtgagaagg aaactccaca gagcctggcc ttcaccagag gggaggtctt ccgagtggta 2220

gacacactgt atgacggcaa gctgggcaac tggctggctg tgaggattgg gaacgagttg 2280

gagaaaggct taatccccaa caagagcaga gctgaacaaa tggccagtgt tcaaaatgcc 2340

cagagagaca acgctgggga ccgggcagat ttctggagaa tgcgtggcca gaggtctggg 2400

gtgaagaaga acctgaggaa aagtcgggaa gacctcacag ctgttgtgtc tgtcagcacc 2460

aagttcccag cttatgagag ggttttgctg cgagaagctg gtttcaagag acctgtggtc 2520

ttattcggcc ccatagctga tatagcaatg gaaaaattgg ctaatgagtt acctgactgg 2580

tttcaaactg ctaaaacgga accaaaagat gcaggatctg agaaatccac tggagtggtc 2640

cggttaaata ccgtgaggca aattattgaa caggataagc atgcactact ggatgtgact 2700

ccgaaagctg tggacctgtt gaattacacc cagtggttcc caattgtgat ttttttcaac 2760

ccagactcca gacaaggtgt caaaaccatg agacaaaggt taaatccaac gtccaacaaa 2820

agttctcgaa agttatttga tcaagccaac aagcttaaaa aaacgtgtgc acacctttt 2880

acagctacaa tcaacctaaa ttcagccaat gatagctggt ttggcagctt aaaggacact 2940

attcagcatc agcaaggaga agcggtttgg gtctctgaag gaaagatgga agggatggat 3000

gatgaccccg aagaccgcat gtcctactta accgccatgg gcgcggacta tctgagttgc 3060

gacagccgcc tcatcagtga ctttgaagac acggacggtg aaggaggcgc ctacactgac 3120

aatgagctgg atgagccagc cgaggagccg ctggtgtcgt ccatcacccg ctcctcggag 3180

ccggtgcagc acgaggagag cataaggaaa cccagcccag agccacgagc tcagatgagg 3240

agggctgcta gcagcgatca acttagggac aatagcccgc ccccagcatt caagccagag 3300

ccgcccaagg ccaaaaccca gaacaaagaa gaatcctatg acttctccaa atcctatgaa 3360

tataagtcaa acccctctgc cgttgctggt aatgaaactc ctggggcatc taccaaaggt 3420

tatcctcctc ctgttgcagc aaaacctacc tttgggcggt ctatactgaa gccctccact 3480

cccatccctc ctcaagaggg tgaggaggtg ggagagagca gtgaggagca agataatgct 3540

cccaaatcag tcctgggcaa agtcaaaata tttgagaaga tggatcacaa ggccaggtta 3600

cagagaatgc aggagctcca ggaagcacag aatgcaagga tcgaaattgc ccagaagcat 3660

cctgatatct atgcagttcc aatcaaaacg cacaagccag accctggcac gccccagcac 3720

acgagttcca gacccccctga gccacagaaa gctccttcca gaccttatca ggataccaga 3780

ggaagttatg gcagtgatgc cgaggaggag gagtaccgcc agcagctgtc agaacactcc 3840

aagcgcggtt actatggcca gtctgcccga taccgggaca cagaattata gatgtctgag 3900

cacggactct cccaggcctg cctgcatggc atcagactag ccactcctgc caggccgccg 3960

ggatggttct tctccagtta gaatgcacca tggagacgtg gtgggactcc agctcgtgtg 4020

tcctcatgga gaacccaggg gacagctggt gcaaattcag aactgagggc tctgtttgtg 4080

ggactgggtt agaggagtct gtggcttttt gttcagaatt aagcagaaca ctgcagtcag 4140

atcctgttac ttgcttcagt ggaccgaaat ctgtattctg tttgcgtact tgtaatatgt 4200

atattaagaa gcaataacta tttttcctca ttaatagctg ccttcaagga ctgtttcagt 4260

gtgagtcaga atgtgaaaaa ggaataaaaa atactgttgg gctcaaacta aattcaaaga 4320

agtactttat tgcaactctt ttaagtgcct tggatgagaa gtgtcttaaa ttttcttcct 4380

ttgaagcttt aggcagagcc ataatggact aaaacatttt gactaagttt ttataccagc 4440

ttaatagctg tagttttccc tgcactgtgt catcttttca aggcatttgt ctttgtaata 4500

ttttccataa atttggactg tctatatcat aactatactt gatagtttgg ctataagtgc 4560

tcaatagctt gaagcccaag aagttggtat cgaaatttgt tgtttgttta aacccaagtg 4620

ctgcacaaaa gcagatactt gaggaaaaca ctatttccaa aagcacatgt attgacaaca 4680

gttttataat ttaataaaaa ggaatacatt gcaatccgta atttt 4725

<210> 5
<211> 4284
<212> DNA
<213> Artificial Sequence

<220>
<223> Tight Junction Protein 2 (ZO-2) isoform 2 of Homo sapiens

<400> 5
gacgcggttc gccgcaggag cctcgaaggc gcggcgccgg cgagcccttc cccggcaggc 60

gcgtgggtgg tagcggccaa tttgacagtt tcccgggccg ggcggccagc gcggaggcgc 120

cacgctcggg tcgggggcgg gctgacgccg ccgccgccgc gggaggaggg acaaaggggt 180

gggtccccgc gggtcggcac cccggcggtt gggctgcggg tcagagcact gtccggtggt 240

gcccaggagg agtaggagca ggagcagaag cagaagcggg gtccggagct gcgcgcctac 300

gcgggacctg tgtccgaaat gccggtgcga ggagaccgcg ggtttccacc ccggcgggag 360

ctgtcaggtt ggctccgcgc cccaggcatg gaagagctga tatgggaaca gtacactgtg 420

accctacaaa aggattccaa aagaggattt ggaattgcag tgtccggagg cagagacaac 480

ccccactttg aaaatggaga aacgtcaatt gtcatttctg atgtgctccc gggtgggcct 540

gctgatgggc tgctccaaga aaatgacaga gtggtcatgg tcaatggcac ccccatggag 600

gatgtgcttc attcgtttgc agttcagcag ctcagaaaaa gtgggaaggt cgctgctatt 660

gtggtcaaga ggccccggaa ggtccaggtg gccgcacttc aggccagccc tcccctggat 720

caggatgacc gggcttttga ggtgatggac gagtttgatg gcagaagttt ccggagtggc 780

tacagcgaga ggagccggct gaacagccat ggggggcgca gccgcagctg ggaggacagc 840

ccggaaaggg ggcgtcccca tgagcgggcc cggagccggg agcgggacct cagccgggac 900

cggagccgtg gccggagcct ggagcggggc ctggaccaag accatgcgcg cacccgagac 960

cgcagccgtg gccggagcct ggagcggggc ctggaccacg actttgggcc atcccgggac 1020

cgggaccgtg accgcagccg cggccggagc attgaccagg actacgagcg agcctatcac 1080

cgggcctacg acccagacta cgagcgggcc tacagcccgg agtacaggcg cggggcccgc 1140

cacgatgccc gctctcgggg accccgaagc cgcagccgcg agcacccgca ctcacggagc 1200

cccagccccg agcctagggg gcggccgggg cccatcgggg tcctcctgat gaaaagcaga 1260

gcgaacgaag agtatggtct ccggcttggg agtcagatct tcgtaaagga aatgacccga 1320

acgggtctgg caactaaaga tggcaacctt cacgaaggag acataattct caagatcaat 1380

gggactgtaa ctgagaacat gtctttaacg gatgctcgaa aattgataga aaagtcaaga 1440

ggaaaactac agctagtggt gttgagagac agccagcaga ccctcatcaa catcccgtca 1500

ttaaatgaca gtgactcaga aatagaagat atttcagaaa tagagtcaaa ccgatcattt 1560

tctccagagg agagacgtca tcagtattct gattatgatt atcattcctc aagtgagaag 1620

ctgaaggaaa ggccaagttc cagagaggac acgccgagca gattgtccag gatgggtgcg 1680

acacccactc cctttaagtc cacaggggat attgcaggca cagttgtccc agagaccaac 1740
aaggaaccca gataccaaga ggacccccca gctcctcaac caaaagcagc cccgagaact 1800
tttcttcgtc ctagtcctga agatgaagca atatatggcc ctaataccaa aatggtaagg 1860
ttcaagaagg gagacagcgt gggcctccgg ttggctggtg gcaatgatgt cgggatattt 1920
gttgctggca ttcaagaagg gacctcggcg gagcaggagg gccttcaaga aggagaccag 1980
attctgaagg tgaacacaca ggatttcaga ggattagtgc gggaggatgc cgttctctac 2040
ctgttagaaa tccctaaagg tgaaatggtg accattttag ctcagagccg agccgatgtg 2100
tatagagaca tcctggcttg tggcagaggg gattcgtttt ttataagaag ccactttgaa 2160
tgtgagaagg aaactccaca gagcctggcc ttcaccagag gggaggtctt ccgagtggta 2220
gacacactgt atgacggcaa gctgggcaac tggctggctg tgaggattgg gaacgagttg 2280
gagaaaggct taatccccaa caagagcaga gctgaacaaa tggccagtgt tcaaaatgcc 2340
cagagagaca acgctgggga ccgggcagat ttctggagaa tgcgtggcca gaggtctggg 2400
gtgaagaaga acctgaggaa aagtcgggaa gacctcacag ctgttgtgtc tgtcagcacc 2460
aagttcccag cttatgagag ggttttgctg cgagaagctg gtttcaagag acctgtggtc 2520
ttattcggcc ccatagctga tatagcaatg gaaaaattgg ctaatgagtt acctgactgg 2580
tttcaaactg ctaaaacgga accaaaagat gcaggatctg agaaatccac tggagtggtc 2640
cggttaaata ccgtgaggca aattattgaa caggataagc atgcactact ggatgtgact 2700
ccgaaagctg tggacctgtt gaattacacc cagtggttcc caattgtgat ttttttcaac 2760
ccagactcca gacaaggtgt caaaaccatg agacaaaggt taaatccaac gtccaacaaa 2820
agttctcgaa agttatttga tcaagccaac aagcttaaaa aaacgtgtgc acacctttt 2880
acagctacaa tcaacctaaa ttcagccaat gatagctggt ttggcagctt aaaggacact 2940
attcagcatc agcaaggaga agcggtttgg gtctctgaag gaaagatgga agggatggat 3000
gatgaccccg aagaccgcat gtcctactta accgccatgg gcgcggacta tctgagttgc 3060
gacagccgcc tcatcagtga ctttgaagac acggacggtg aaggaggcgc ctacactgac 3120
aatgagctgg atgagccagc cgaggagccg ctggtgtcgt ccatcacccg ctcctcggag 3180
ccggtgcagc acgaggagat cgaaattgcc cagaagcatc ctgatatcta tgcagttcca 3240
atcaaaacgc acaagccaga ccctggcacg ccccagcaca cgagttccag acccccctgag 3300
ccacagaaag ctccttccag accttatcag gataccagag gaagttatgg cagtgatgcc 3360
gaggaggagg agtaccgcca gcagctgtca gaacactcca agcgcggtta ctatggccag 3420
tctgcccgat accgggacac agaattatag atgtctgagc acggactctc ccaggcctgc 3480
ctgcatggca tcagactagc cactcctgcc aggccgccgg gatggttctt ctccagttag 3540
aatgcaccat ggagacgtgg tgggactcca gctcgtgtgt cctcatggag aacccagggg 3600
acagctggtg caaattcaga actgagggct ctgtttgtgg gactgggtta gaggagtctg 3660
tggctttttg ttcagaatta agcagaacac tgcagtcaga tcctgttact tgcttcagtg 3720

gaccgaaatc tgtattctgt ttgcgtactt gtaatatgta tattaagaag caataactat 3780

ttttcctcat taatagctgc cttcaaggac tgtttcagtg tgagtcagaa tgtgaaaaag 3840

gaataaaaaa tactgttggg ctcaaactaa attcaaagaa gtactttatt gcaactcttt 3900

taagtgcctt ggatgagaag tgtcttaaat tttcttcctt tgaagcttta ggcagagcca 3960

taatggacta aaacattttg actaagtttt tataccagct taatagctgt agttttccct 4020

gcactgtgtc atcttttcaa ggcatttgtc tttgtaatat tttccataaa tttggactgt 4080

ctatatcata actatacttg atagtttggc tataagtgct caatagcttg aagcccaaga 4140

agttggtatc gaaatttgtt gtttgtttaa acccaagtgc tgcacaaaag cagatacttg 4200

aggaaaacac tatttccaaa agcacatgta ttgacaacag ttttataatt taataaaaag 4260

gaatacattg caatccgtaa tttt 4284

<210> 6
<211> 4500
<212> DNA
<213> Artificial Sequence

<220>
<223> Tight Junction Protein 2 (ZO-2) isoform 3 of Homo sapiens

<400> 6
atgaagactg ctcaagccct acataggatg tggatccagg ctgttaaaaa gttgaggaga 60

tggaaaggcc gtgtgagtcc ctctgcaagc tctccccttg ttttccccaa cctttcttca 120

tgggaagggg agggaagcaa aaccattctc acagccccag gcatggaaga gctgatatgg 180

gaacagtaca ctgtgaccct acaaaaggat tccaaaagag gatttggaat tgcagtgtcc 240

ggaggcagag acaaccccca ctttgaaaat ggagaaacgt caattgtcat ttctgatgtg 300

ctcccgggtg ggcctgctga tgggctgctc caagaaaatg acagagtggt catggtcaat 360

ggcaccccca tggaggatgt gcttcattcg tttgcagttc agcagctcag aaaaagtggg 420

aaggtcgctg ctattgtggt caagaggccc cggaaggtcc aggtggccgc acttcaggcc 480

agccctcccc tggatcagga tgaccgggct tttgaggtga tggacgagtt tgatggcaga 540

agtttccgga gtggctacag cgagaggagc cggctgaaca gccatggggg gcgcagccgc 600

agctgggagg acagcccgga aaggggcgt ccccatgagc gggcccggag ccgggagcgg 660

gacctcagcc gggaccggag ccgtggccgg agcctggagc ggggcctgga ccaagaccat 720

gcgcgcaccc gagaccgcag ccgtggccgg agcctggagc ggggcctgga ccacgacttt 780

gggccatccc gggaccggga ccgtgaccgc agccgcggcc ggagcattga ccaggactac 840

gagcgagcct atcaccgggc ctacgaccca gactacgagc gggcctacag cccggagtac 900

aggcgcgggg cccgccacga tgcccgctct cggggacccc gaagccgcag ccgcgagcac 960

ccgcactcac ggagccccag ccccgagcct agggggcggc cggggcccat cggggtcctc 1020

ctgatgaaaa gcagagcgaa cgaagagtat ggtctccggc ttgggagtca gatcttcgta 1080

aaggaaatga cccgaacggg tctggcaact aaagatggca accttcacga aggagacata 1140

attctcaaga tcaatgggac tgtaactgag aacatgtctt taacggatgc tcgaaaattg 1200

atagaaaagt caagaggaaa actacagcta gtggtgttga gagacagcca gcagaccctc 1260

atcaacatcc cgtcattaaa tgacagtgac tcagaaatag aagatatttc agaaatagag 1320

tcaaaccgat cattttctcc agaggagaga cgtcatcagt attctgatta tgattatcat 1380

tcctcaagtg agaagctgaa ggaaaggcca agttccagag aggacacgcc gagcagattg 1440

tccaggatgg gtgcgacacc cactcccttt aagtccacag gggatattgc aggcacagtt 1500

gtcccagaga ccaacaagga acccagatac caagaggacc ccccagctcc tcaaccaaaa 1560

gcagccccga gaacttttct tcgtcctagt cctgaagatg aagcaatata tggccctaat 1620

accaaaatgg taaggttcaa gaagggagac agcgtgggcc tccggttggc tggtggcaat 1680

gatgtcggga tatttgttgc tggcattcaa gaagggacct cggcggagca ggagggcctt 1740

caagaaggag accagattct gaaggtgaac acacaggatt tcagaggatt agtgcgggag 1800

gatgccgttc tctacctgtt agaaatccct aaaggtgaaa tggtgaccat tttagctcag 1860

agccgagccg atgtgtatag agacatcctg gcttgtggca gaggggattc gtttttttata 1920

agaagccact ttgaatgtga gaaggaaact ccacagagcc tggccttcac cagaggggag 1980

gtcttccgag tggtagacac actgtatgac ggcaagctgg gcaactggct ggctgtgagg 2040

attgggaacg agttggagaa aggcttaatc cccaacaaga gcagagctga acaaatggcc 2100

agtgttcaaa atgcccagag agacaacgct ggggaccggg cagatttctg gagaatgcgt 2160

ggccagaggt ctggggtgaa gaagaacctg aggaaaagtc gggaagacct cacagctgtt 2220

gtgtctgtca gcaccaagtt cccagcttat gagagggttt tgctgcgaga agctggtttc 2280

aagagacctg tggtcttatt cggccccata gctgatatag caatggaaaa attggctaat 2340

gagttacctg actggtttca aactgctaaa acggaaccaa aagatgcagg atctgagaaa 2400

tccactggag tggtccggtt aaataccgtg aggcaaatta ttgaacagga taagcatgca 2460

ctactggatg tgactccgaa agctgtggac ctgttgaatt acacccagtg gttcccaatt 2520

gtgatttttt tcaacccaga ctccagacaa ggtgtcaaaa ccatgagaca aaggttaaat 2580

ccaacgtcca acaaaagttc tcgaaagtta tttgatcaag ccaacaagct taaaaaaacg 2640

tgtgcacacc tttttacagc tacaatcaac ctaaattcag ccaatgatag ctggtttggc 2700

agcttaaagg acactattca gcatcagcaa ggagaagcgg tttgggtctc tgaaggaaag 2760

atggaaggga tggatgatga ccccgaagac cgcatgtcct acttaaccgc catgggcgcg 2820

gactatctga gttgcgacag ccgcctcatc agtgactttg aagacacgga cggtgaagga 2880

ggcgcctaca ctgacaatga gctggatgag ccagccgagg agccgctggt gtcgtccatc 2940

acccgctcct cggagccggt gcagcacgag gagagcataa ggaaacccag cccagagcca 3000

cgagctcaga tgaggagggc tgctagcagc gatcaactta gggacaatag cccgccccca 3060

gcatccaagc cagagccgcc caaggccaaa acccagaaca aagaagaatc ctatgacttc 3120

tccaaatcct atgaatataa gtcaaacccc tctgccgttg ctggtaatga aactcctggg 3180

gcatctacca aaggttatcc tcctcctgtt gcagcaaaac ctacctttgg gcggtctata 3240

ctgaagccct ccactcccat ccctcctcaa gagggtgagg aggtgggaga gagcagtgag 3300

gagcaagata atgctcccaa atcagtcctg ggcaaagtca aaatatttga gaagatggat 3360

cacaaggcca ggttacagag aatgcaggag ctccaggaag cacagaatgc aaggatcgaa 3420

attgcccaga agcatcctga tatctatgca gttccaatca aaacgcacaa gccagaccct 3480

ggcacgcccc agcacacgag ttccagaccc cctgagccac agaaagctcc ttccagacct 3540

tatcaggata ccagaggaag ttatggcagt gatgccgagg aggaggagta ccgccagcag 3600

ctgtcagaac actccaagcg cggttactat ggccagtctg cccgataccg ggacacagaa 3660

ttatagatgt ctgagcacgg actctcccag gcctgcctgc atggcatcag actagccact 3720

cctgccaggc cgccgggatg gttcttctcc agttagaatg caccatggag acgtggtggg 3780

actccagctc gtgtgtcctc atggagaacc caggggacag ctggtgcaaa ttcagaactg 3840

agggctctgt ttgtgggact gggttagagg agtctgtggc tttttgttca gaattaagca 3900

gaacactgca gtcagatcct gttacttgct tcagtggacc gaaatctgta ttctgtttgc 3960

gtacttgtaa tatgtatatt aagaagcaat aactattttt cctcattaat agctgccttc 4020

aaggactgtt tcagtgtgag tcagaatgtg aaaaaggaat aaaaaatact gttgggctca 4080

aactaaattc aaagaagtac tttattgcaa ctcttttaag tgccttggat gagaagtgtc 4140

ttaaattttc ttcctttgaa gctttaggca gagccataat ggactaaaac attttgacta 4200

agtttttata ccagcttaat agctgtagtt ttccctgcac tgtgtcatct tttcaaggca 4260

tttgtctttg taatattttc cataaatttg gactgtctat atcataacta tacttgatag 4320

tttggctata agtgctcaat agcttgaagc ccaagaagtt ggtatcgaaa tttgttgttt 4380

gtttaaaccc aagtgctgca caaaagcaga tacttgagga aaacactatt tccaaaagca 4440

catgtattga caacagtttt ataatttaat aaaaaggaat acattgcaat ccgtaatttt 4500

<210> 7
<211> 4459
<212> DNA
<213> Artificial Sequence

<220>
<223> Tight Junction Protein 2 (ZO-2) isoform 4 of Homo sapiens

<400> 7
atatggatgt gtcactgtgt gagatgacaa caggatttgc tggaaatgtg ggccactatt 60

gtatccgcct tacgtaacca catggagtga tggaaatggg tgagcagccc ggaatgtagg 120

cggtggcctg gcccatgcat ctccagagac catgaagact gctcaagccc tacataggat 180

gtggatccag gctgttaaaa agttgaggag atggaaaggc cgtgccccag gcatggaaga 240

gctgatatgg gaacagtaca ctgtgaccct acaaaaggat tccaaaagag gatttggaat 300

tgcagtgtcc ggaggcagag acaaccccca ctttgaaaat ggagaaacgt caattgtcat 360

ttctgatgtg ctcccgggtg ggcctgctga tgggctgctc caagaaaatg acagagtggt 420

catggtcaat ggcaccccca tggaggatgt gcttcattcg tttgcagttc agcagctcag 480
aaaaagtggg aaggtcgctg ctattgtggt caagaggccc cggaaggtcc aggtggccgc 540
acttcaggcc agccctcccc tggatcagga tgaccgggct tttgaggtga tggacgagtt 600
tgatggcaga agtttccgga gtggctacag cgagaggagc cggctgaaca gccatggggg 660
gcgcagccgc agctgggagg acagcccgga aaggggcgt ccccatgagc gggcccggag 720
ccgggagcgg gacctcagcc gggaccggag ccgtggccgg agcctggagc ggggcctgga 780
ccaagaccat gcgcgcaccc gagaccgcag ccgtggccgg agcctggagc ggggcctgga 840
ccacgacttt gggccatccc gggaccggga ccgtgaccgc agccgcggcc ggagcattga 900
ccaggactac gagcgagcct atcaccgggc ctacgaccca gactacgagc gggcctacag 960
cccggagtac aggcgcgggg cccgccacga tgcccgctct cggggacccc gaagccgcag 1020
ccgcgagcac ccgcactcac ggagccccag ccccgagcct agggggcggc cggggcccat 1080
cggggtcctc ctgatgaaaa gcagagcgaa cgaagagtat ggtctccggc ttgggagtca 1140
gatcttcgta aaggaaatga cccgaacggg tctggcaact aaagatggca accttcacga 1200
aggagacata attctcaaga tcaatgggac tgtaactgag aacatgtctt taacggatgc 1260
tcgaaaattg atagaaaagt caagaggaaa actacagcta gtggtgttga gagacagcca 1320
gcagaccctc atcaacatcc cgtcattaaa tgacagtgac tcagaaatag aagatatttc 1380
agaaatagag tcaaaccgat cattttctcc agaggagaga cgtcatcagt attctgatta 1440
tgattatcat tcctcaagtg agaagctgaa ggaaaggcca agttccagag aggacacgcc 1500
gagcagattg tccaggatgg gtgcgacacc cactcccttt aagtccacag gggatattgc 1560
aggcacagtt gtcccagaga ccaacaagga acccagatac caagaggacc ccccagctcc 1620
tcaaccaaaa gcagccccga gaacttttct tcgtcctagt cctgaagatg aagcaatata 1680
tggccctaat accaaaatgg taaggttcaa gaagggagac agcgtgggcc tccggttggc 1740
tggtggcaat gatgtcggga tatttgttgc tggcattcaa gaagggacct cggcggagca 1800
ggagggcctt caagaaggag accagattct gaaggtgaac acacaggatt tcagaggatt 1860
agtgcgggag gatgccgttc tctacctgtt agaaatccct aaaggtgaaa tggtgaccat 1920
tttagctcag agccgagccg atgtgtatag agacatcctg gcttgtggca gaggggattc 1980
gttttttata agaagccact ttgaatgtga gaaggaaact ccacagagcc tggccttcac 2040
cagaggggag gtcttccgag tggtagacac actgtatgac ggcaagctgg gcaactggct 2100
ggctgtgagg attgggaacg agttggagaa aggcttaatc cccaacaaga gcagagctga 2160
acaaatggcc agtgttcaaa atgcccagag agacaacgct ggggaccggg cagatttctg 2220
gagaatgcgt ggccagaggt ctggggtgaa gaagaacctg aggaaaagtc gggaagacct 2280
cacagctgtt gtgtctgtca gcaccaagtt cccagcttat gagagggttt tgctgcgaga 2340
agctggtttc aagagacctg tggtcttatt cggccccata gctgatatag caatggaaaa 2400
attggctaat gagttacctg actggtttca aactgctaaa acggaaccaa aagatgcagg 2460

atctgagaaa tccactggag tggtccggtt aaataccgtg aggcaaatta ttgaacagga 2520
taagcatgca ctactggatg tgactccgaa agctgtggac ctgttgaatt acacccagtg 2580
gttcccaatt gtgatttttt tcaacccaga ctccagacaa ggtgtcaaaa ccatgagaca 2640
aaggttaaat ccaacgtcca acaaaagttc tcgaaagtta tttgatcaag ccaacaagct 2700
taaaaaaacg tgtgcacacc tttttacagc tacaatcaac ctaaattcag ccaatgatag 2760
ctggtttggc agcttaaagg acactattca gcatcagcaa ggagaagcgg tttgggtctc 2820
tgaaggaaag atggaaggga tggatgatga ccccgaagac cgcatgtcct acttaaccgc 2880
catgggcgcg gactatctga gttgcgacag ccgcctcatc agtgactttg aagacacgga 2940
cggtgaagga ggcgcctaca ctgacaatga gctggatgag ccagccgagg agccgctggt 3000
gtcgtccatc acccgctcct cggagccggt gcagcacgag gaggccaaaa cccagaacaa 3060
agaagaatcc tatgacttct ccaaatccta tgaatataag tcaaacccct ctgccgttgc 3120
tggtaatgaa actcctgggg catctaccaa aggttatcct cctcctgttg cagcaaaacc 3180
taccttggg cggtctatac tgaagccctc cactcccatc cctcctcaag agggtgagga 3240
ggtgggagag agcagtgagg agcaagataa tgctcccaaa tcagtcctgg gcaaagtcaa 3300
aatatttgag aagatggatc acaaggccag gttacagaga atgcaggagc tccaggaagc 3360
acagaatgca aggatcgaaa ttgcccagaa gcatcctgat atctatgcag ttccaatcaa 3420
aacgcacaag ccagaccctg gcacgcccca gcacacgagt tccagacccc ctgagccaca 3480
gaaagctcct tccagacctt atcaggatac cagaggaagt tatggcagtg atgccgagga 3540
ggaggagtac cgccagcagc tgtcagaaca ctccaagcgc ggttactatg gccagtctgc 3600
ccgataccgg gacacagaat tatagatgtc tgagcacgga ctctcccagg cctgcctgca 3660
tggcatcaga ctagccactc ctgccaggcc gccgggatgg ttcttctcca gttagaatgc 3720
accatggaga cgtggtggga ctccagctcg tgtgtcctca tggagaaccc aggggacagc 3780
tggtgcaaat tcagaactga gggctctgtt tgtgggactg ggttagagga gtctgtggct 3840
ttttgttcag aattaagcag aacactgcag tcagatcctg ttacttgctt cagtggaccg 3900
aaatctgtat tctgtttgcg tacttgtaat atgtatatta agaagcaata actatttttc 3960
ctcattaata gctgccttca aggactgttt cagtgtgagt cagaatgtga aaaaggaata 4020
aaaaatactg ttgggctcaa actaaattca aagaagtact ttattgcaac tcttttaagt 4080
gccttggatg agaagtgtct taaattttct tcctttgaag ctttaggcag agccataatg 4140
gactaaaaca ttttgactaa gtttttatac cagcttaata gctgtagttt tccctgcact 4200
gtgtcatctt ttcaaggcat ttgtctttgt aatattttcc ataaatttgg actgtctata 4260
tcataactat acttgatagt ttggctataa gtgctcaata gcttgaagcc caagaagttg 4320
gtatcgaaat ttgttgtttg tttaaaccca agtgctgcac aaaagcagat acttgaggaa 4380
aacactattt ccaaaagcac atgtattgac aacagtttta taatttaata aaaaggaata 4440
cattgcaatc cgtaatttt 4459

<210> 8
<211> 4129
<212> DNA
<213> Artificial Sequence

<220>
<223> Tight Junction Protein 2 (ZO-2) isoform 5 of Homo sapiens

<400> 8
caccctctcc gcctttcccg acaccccaaa gtagcgctgc gagcagctgc gtctccctcc 60

cggggctcgc gcgcccagaa ccctccggtc tcaaggaagc agggtgcgaa gtaccacatt 120

actgtcatct ccctgtgagt gggattggca ccccggctgc agctccagga gcaagtactc 180

caggaagcac agagctgtac cagtacacgg cccacgttgc caggccccag gcatggaaga 240

gctgatatgg gaacagtaca ctgtgaccct acaaaaggat tccaaaagag gatttggaat 300

tgcagtgtcc ggaggcagag acaaccccca ctttgaaaat ggagaaacgt caattgtcat 360

ttctgatgtg ctcccgggtg ggcctgctga tgggctgctc caagaaaatg acagagtggt 420

catggtcaat ggcaccccca tggaggatgt gcttcattcg tttgcagttc agcagctcag 480

aaaaagtggg aaggtcgctg ctattgtggt caagaggccc cggaaggtcc aggtggccgc 540

acttcaggcc agccctcccc tggatcagga tgaccgggct tttgaggtga tggacgagtt 600

tgatggcaga agtttccgga gtggctacag cgagaggagc cggctgaaca gccatggggg 660

gcgcagccgc agctgggagg acagcccgga aaggggcgt ccccatgagc gggcccggag 720

ccgggagcgg gacctcagcc gggaccggag ccgtggccgg agcctggagc ggggcctgga 780

ccaagaccat gcgcgcaccc gagaccgcag ccgtggccgg agcctggagc ggggcctgga 840

ccacgacttt gggccatccc gggaccggga ccgtgaccgc agccgcggcc ggagcattga 900

ccaggactac gagcgagcct atcaccgggc ctacgaccca gactacgagc gggcctacag 960

cccggagtac aggcgcgggg cccgccacga tgcccgctct cggggacccc gaagccgcag 1020

ccgcgagcac ccgcactcac ggagccccag ccccgagcct agggggcggc cggggcccat 1080

cggggtcctc ctgatgaaaa gcagagcgaa cgaagagtat ggtctccggc ttgggagtca 1140

gatcttcgta aaggaaatga cccgaacggg tctggcaact aaagatggca accttcacga 1200

aggagacata attctcaaga tcaatgggac tgtaactgag aacatgtctt taacggatgc 1260

tcgaaaattg atagaaaagt caagaggaaa actacagcta gtggtgttga gagacagcca 1320

gcagaccctc atcaacatcc cgtcattaaa tgacagtgac tcagaaatag aagatatttc 1380

agaaatagag tcaaaccgat cattttctcc agaggagaga cgtcatcagt attctgatta 1440

tgattatcat tcctcaagtg agaagctgaa ggaaaggcca agttccagag aggacacgcc 1500

gagcagattg tccaggatgg gtgcgacacc cactcccttt aagtccacag gggatattgc 1560

aggcacagtt gtcccagaga ccaacaagga acccagatac caagaggacc ccccagctcc 1620

tcaaccaaaa gcagccccga gaacttttct tcgtcctagt cctgaagatg aagcaatata 1680

tggccctaat accaaaatgg taaggttcaa gaagggagac agcgtgggcc tccggttggc 1740

tggtggcaat gatgtcggga tatttgttgc tggcattcaa gaagggacct cggcggagca 1800

ggagggcctt caagaaggag accagattct gaaggtgaac acacaggatt tcagaggatt 1860

agtgcgggag gatgccgttc tctacctgtt agaaatccct aaaggtgaaa tggtgaccat 1920

tttagctcag agccgagccg atgtgtatag agacatcctg gcttgtggca gaggggattc 1980

gtttttttata agaagccact ttgaatgtga gaaggaaact ccacagagcc tggccttcac 2040

cagaggggag gtcttccgag tggtagacac actgtatgac ggcaagctgg gcaactggct 2100

ggctgtgagg attgggaacg agttggagaa aggcttaatc cccaacaaga gcagagctga 2160

acaaatggcc agtgttcaaa atgcccagag agacaacgct ggggaccggg cagatttctg 2220

gagaatgcgt ggccagaggt ctggggtgaa gaagaacctg aggaaaagtc gggaagacct 2280

cacagctgtt gtgtctgtca gcaccaagtt cccagcttat gagagggttt tgctgcgaga 2340

agctggtttc aagagacctg tggtcttatt cggccccata gctgatatag caatggaaaa 2400

attggctaat gagttacctg actggtttca aactgctaaa acggaaccaa aagatgcagg 2460

atctgagaaa tccactggag tggtccggtt aaataccgtg aggcaaatta ttgaacagga 2520

taagcatgca ctactggatg tgactccgaa agctgtggac ctgttgaatt acacccagtg 2580

gttcccaatt gtgatttttt tcaacccaga ctccagacaa ggtgtcaaaa ccatgagaca 2640

aaggttaaat ccaacgtcca acaaaagttc tcgaaagtta tttgatcaag ccaacaagct 2700

taaaaaaacg tgtgcacacc tttttacagc tacaatcaac ctaaattcag ccaatgatag 2760

ctggtttggc agcttaaagg acactattca gcatcagcaa ggagaagcgg tttgggtctc 2820

tgaaggaaag atggaaggga tggatgatga ccccgaagac cgcatgtcct acttaaccgc 2880

catgggcgcg gactatctga gttgcgacag ccgcctcatc agtgactttg aagacacgga 2940

cggtgaagga ggcgcctaca ctgacaatga gctggatgag ccagccgagg agccgctggt 3000

gtcgtccatc acccgctcct cggagccggt gcagcacgag gagatcgaaa ttgcccagaa 3060

gcatcctgat atctatgcag ttccaatcaa aacgcacaag ccagaccctg gcacgcccca 3120

gcacacgagt tccagacccc ctgagccaca gaaagctcct tccagacctt atcaggatac 3180

cagaggaagt tatggcagtg atgccgagga ggaggagtac cgccagcagc tgtcagaaca 3240

ctccaagcgc ggttactatg gccagtctgc ccgataccgg gacacagaat tatagatgtc 3300

tgagcacgga ctctcccagg cctgcctgca tggcatcaga ctagccactc ctgccaggcc 3360

gccgggatgg ttcttctcca gttagaatgc accatggaga cgtggtggga ctccagctcg 3420

tgtgtcctca tggagaaccc aggggacagc tggtgcaaat tcagaactga gggctctgtt 3480

tgtgggactg ggttagagga gtctgtggct ttttgttcag aattaagcag aacactgcag 3540

tcagatcctg ttacttgctt cagtggaccg aaatctgtat tctgtttgcg tacttgtaat 3600

atgtatatta agaagcaata actatttttc ctcattaata gctgccttca aggactgttt 3660

cagtgtgagt cagaatgtga aaaaggaata aaaaatactg ttgggctcaa actaaattca 3720

aagaagtact ttattgcaac tcttttaagt gccttggatg agaagtgtct taaattttct 3780

tcctttgaag ctttaggcag agccataatg gactaaaaca ttttgactaa gtttttatac 3840

cagcttaata gctgtagttt tccctgcact gtgtcatctt ttcaaggcat ttgtctttgt 3900

aatattttcc ataaatttgg actgtctata tcataactat acttgatagt ttggctataa 3960

gtgctcaata gcttgaagcc caagaagttg gtatcgaaat ttgttgtttg tttaaaccca 4020

agtgctgcac aaaagcagat acttgaggaa aacactattt ccaaaagcac atgtattgac 4080

aacagtttta taatttaata aaaaggaata cattgcaatc cgtaatttt 4129

<210> 9
<211> 4720
<212> DNA
<213> Artificial Sequence

<220>
<223> Tight Junction Protein 2 (ZO-2) isoform 6 of Homo sapiens

<400> 9
gacgcggttc gccgcaggag cctcgaaggc gcggcgccgg cgagcccttc cccggcaggc 60

gcgtgggtgg tagcggccaa tttgacagtt tcccgggccg ggcggccagc gcggaggcgc 120

cacgctcggg tcgggggcgg gctgacgccg ccgccgccgc gggaggaggg acaaaggggt 180

gggtccccgc gggtcggcac cccggcggtt gggctgcggg tcagagcact gtccggtggt 240

gcccaggagg agtaggagca ggagcagaag cagaagcggg gtccggagct gcgcgcctac 300

gcgggacctg tgtccgaaat gccggtgcga ggagaccgcg ggtttccacc ccggcgggag 360

ctgtcaggtt ggctccgcgc cccaggcatg gaagagctga tatgggaaca gtacactgtg 420

accctacaaa aggattccaa aagaggattt ggaattgcag tgtccggagg cagagacaac 480

ccccactttg aaaatggaga aacgtcaatt gtcatttctg atgtgctccc gggtgggcct 540

gctgatgggc tgctccaaga aaatgacaga gtggtcatgg tcaatggcac ccccatggag 600

gatgtgcttc attcgtttgc agttcagcag ctcagaaaaa gtgggaaggt cgctgctatt 660

gtggtcaaga ggccccggaa ggtccaggtg gccgcacttc aggccagccc tcccctggat 720

caggatgacc gggcttttga ggtgatggac gagtttgatg gcagaagttt ccggagtggc 780

tacagcgaga ggagccggct gaacagccat ggggggcgca gccgcagctg ggaggacagc 840

ccggaaaggg ggcgtcccca tgagcgggcc cggagccggg agcgggacct cagccgggac 900

cggagccgtg gccggagcct ggagcggggc ctggaccaag accatgcgcg cacccgagac 960

cgcagccgtg gccggagcct ggagcggggc ctggaccacg actttgggcc atcccgggac 1020

cgggaccgtg accgcagccg cggccggagc attgaccagg actacgagcg agcctatcac 1080

cgggcctacg acccagacta cgagcgggcc tacagcccgg agtacaggcg cggggcccgc 1140

cacgatgccc gctctcgggg accccgaagc cgcagccgcg agcacccgca ctcacggagc 1200

cccagccccg agcctagggg gcggccgggg cccatcgggg tcctcctgat gaaaagcaga 1260

gcgaacgaag agtatggtct ccggcttggg agtcagatct tcgtaaagga aatgacccga 1320

acgggtctgg caactaaaga tggcaacctt cacgaaggag acataattct caagatcaat 1380

gggactgtaa ctgagaacat gtctttaacg gatgctcgaa aattgataga aaagtcaaga 1440

ggaaaactac agctagtggt gttgagagac agccagcaga ccctcatcaa catcccgtca 1500

ttaaatgaca gtgactcaga aatagaagat atttcagaaa tagagtcaaa ccgatcattt 1560

tctccagagg agagacgtca tcagtattct gattatgatt atcattcctc aagtgagaag 1620

ctgaaggaaa ggccaagttc cagagaggac acgccgagca gattgtccag gatgggtgcg 1680

acacccactc cctttaagtc cacaggggat attgcaggca cagttgtccc agagaccaac 1740

aaggaaccca gataccaaga ggacccccca gctcctcaac caaaagcagc cccgagaact 1800

tttcttcgtc ctagtcctga agatgaagca atatatggcc ctaataccaa aatggtaagg 1860

ttcaagaagg gagacagcgt gggcctccgg ttggctggtg gcaatgatgt cgggatattt 1920

gttgctggca ttcaagaagg gacctcggcg gagcaggagg gccttcaaga aggagaccag 1980

attctgaagg tgaacacaca ggatttcaga ggattagtgc gggaggatgc cgttctctac 2040

ctgttagaaa tccctaaagg tgaaatggtg accattttag ctcagagccg agccgatgtg 2100

tatagagaca tcctggcttg tggcagaggg gattcgtttt ttataagaag ccactttgaa 2160

tgtgagaagg aaactccaca gagcctggcc ttcaccagag gggaggtctt ccgagtggta 2220

gacacactgt atgacggcaa gctgggcaac tggctggctg tgaggattgg gaacgagttg 2280

gagaaaggct taatccccaa caagagcaga gctgaacaaa tggccagtgt tcaaaatgcc 2340

cagagagaca acgctgggga ccgggcagat ttctggagaa tgcgtggcca gaggtctggg 2400

gtgaagaaga acctgaggaa aagtcgggaa gacctcacag ctgttgtgtc tgtcagcacc 2460

aagttcccag cttatgagag ggttttgctg cgagaagctg gtttcaagag acctgtggtc 2520

ttattcggcc ccatagctga tatagcaatg gaaaaattgg ctaatgagtt acctgactgg 2580

tttcaaactg ctaaaacgga accaaaagat gcaggatctg agaaatccac tggagtggtc 2640

cggttaaata ccgtgaggca aattattgaa caggataagc atgcactact ggatgtgact 2700

ccgaaagctg tggacctgtt gaattacacc cagtggttcc caattgtgat ttttttcaac 2760

ccagactcca gacaaggtgt caaaaccatg agacaaaggt taaatccaac gtccaacaaa 2820

agttctcgaa agttatttga tcaagccaac aagcttaaaa aaacgtgtgc acacctttt 2880

acagctacaa tcaacctaaa ttcagccaat gatagctggt ttggcagctt aaaggacact 2940

attcagcatc agcaaggaga agcggtttgg gtctctgaag gaaagatgga agggatggat 3000

gatgaccccg aagaccgcat gtcctactta accgccatgg gcgcggacta tctgagttgc 3060

gacagccgcc tcatcagtga ctttgaagac acggacggtg aaggaggcgc ctacactgac 3120

aatgagctgg atgagccagc cgaggagccg ctggtgtcgt ccatcacccg ctcctcggag 3180

ccggtgcagc acgaggaggt gaggcgaggc aggccacggg caggaacagg agagcctggt 3240

gttttccttg cactctcgtg gacagctgtg tgttcagggt gctgtggaag gcattcctaa 3300

gggttggagc agatgacttc cagggagtct ctcgctttga gtccacgctg gcatggttgc 3360

agtctgtggg aaagtggggc aggcaggtgg acttcagaag agcttgaggg gtcagcactc 3420

cgcacaccca tgccctcagg tgcgatggat aaacagaatg gctttaggtg ccgtctgtcc 3480

aaattaccag cggaaccttc cttcccatgc agtattgttg tatgtacttg taacctttga 3540

ttaggtttct ctctgtactc ttagatgtcc ttgcttttct tccccatcct gcctttaacc 3600

tttctaatct tgccaaagct cttgagtgtt tccccatcag tttccttctc tcttatattt 3660

cagtttttta attgagttca tgatcaaacc ttcatctgat cacatcacat gtactgtgca 3720

tccactgtga ttagatagct tatgggatcc ttgaaatcac attgacaggc actgtaaagt 3780

cacagccaag ttagcaatta ttagttgcac ctcagagaat gttggaataa tgatctttga 3840

agatgggatt gttcatatat ttggataatt attgctgtgg atttctctct agcattttag 3900

ctcattccag taaatgattt ttttctttat gaaatagaac taccaaaaaa aaaaaaaaaa 3960

aaaagttcaa caacaacaaa ctgaaggggg agaaaaatac accattacca cagcaacaaa 4020

ttagtttatg ctagacaact tgtaaagaat aaattaactt ccaaatgcct atagacatgg 4080

atattagtga cacaagagat tttagacttt tggagggttc ttaaaaaatt gtgctttaaa 4140

ggaagagact ctacattgga tgcagccagt ttttaaaaat gtgtctgaag catttggtga 4200

tggtttctgc ctgttcagta aagaagcacc ggctcagaac ctcaacttct ggacttactc 4260

aagtttgcag aactcctcca aagcagtcga gtgctctgtt ctctctgctt ggatgttctt 4320

gttgtgaatg aacctttatg tcttgtagag cataaggaaa cccagcccag agccacgagc 4380

tcagatgagg agggctgcta gcagcgatca acttagggac aatagcccgc ccccagcatt 4440

caagccagag ccgcccaagg tacgtggctg ggaagcccag gatgggaagg aagaggaagc 4500

agatgcctct gaagcctcct ggacggccag ggaggagcat gcacactgag atggtgttta 4560

attacggttc tgactcactg tgttctctat tagagcctat cttttggcct gttgggtgaa 4620

ctcccaaatt agggaagggc aaaaaggaag gaaaggcaat attaggagag catatgattt 4680

taggactgtt agtgtttatt taatttactc ttcttgttaa 4720

<210> 10
<211> 2084
<212> DNA
<213> Artificial Sequence

<220>
<223> Zinc Finger Protein SNAI2 of Mus musculus

<400> 10
cagggagccg ggtgacttca gaggcgcctg cctgtccccc gccgcacctg agccaccgcg 60

atgctatagg accgccgcct ggaccgttat ccgcccgcgc ccgcccgcag ccaccatgcc 120

gcgctccttc ctggtcaaga aacatttcaa cgcctccaag aagcccaact acagcgaact 180

ggacacacac acagttatta tttccccata tctctatgaa agttacccta tacctgtcat 240

accaaaacca gagatcctca cctcgggagc atacagccct attactgtat ggacatcgtc 300

ggcagctcca ctccactctc ctttacccag tggcctttct cctcttactg gatactcctc 360

atccttgggg cgtgtaagtc ccccgccttc ctctgacact tcatccaagg atcacagtgg 420

ttcagaaagt cccattagtg acgaagagga gagactgcag cccaagcttt cagaccccca 480

tgccatcgaa gctgagaagt ttcagtgcaa tttatgcaat aagacctatt ctacgttctc 540

tgggctggcc aaacacaagc agctgcactg tgatgcccag tctaggaaat cgttcagctg 600

caagtactgt gacaaggaat atgtgagcct gggtgccctg aagatgcaca ttcgaaccca 660

cacattgcct tgtgtctgca agatctgtgg caaggctttc tccagaccct ggctgcttca 720

aggacacatt agaactcaca ctggggaaaa gcctttctct tgccctcact gcaatagggc 780

ttttgcagac agatcaaacc tgagggcaca tctgcagacc cactctgatg taaagaaata 840

ccagtgcaaa aactgctcca aaaccttctc cagaatgtcg cttctgcata aacatgagga 900

gtctggctgc tgtgtggcac actgagtggc gcaaccagtg tttactcaaa cagaatgcat 960

ttcttcactc caatgacaaa tgacaaatga aagtccaaag acattttctc atgtgcttac 1020

caaccaaata gtatgtataa aaccacaaaa gagtcacaca cacacacaca cacacacaca 1080

cacacacaca cacagagaga gagagagaga gagagagaga gacagacaga cagacagaca 1140

gatacacaca cactacagaa cagaatctat gtacttaaag ttaattcgtt ctatgtgaag 1200

tttaaaatta tatttactga cagctagatt gaaaggataa aagataagaa tctttctctt 1260

taaagatgaa gtgaaaagca cattgcatct tttcttacta agaaagaata cagagattta 1320

cactgctgcc aaaccatttc aaccaaagga acagtatttc ttcttaatag aattgtaata 1380

gtgtttccaa gaggaagaga gtctgccaga cactatctca ggtgccttat aaagtactcc 1440

aagtttactt ccttaaatgt atgatgcctg gttgtcatca gtgaatgaca gccttttctg 1500

gattacctac aatgttttaa aactatattg ttaagagaaa aaaaaccaaa aacaagaaaa 1560

agaacagaac acaagagaat gtattaaagt attcttgttt tatttttgcc atgtgtgcct 1620

tggaagagga gggaaagaca aacttcaaac attcctggtg cgtgtcccat gtctttcttt 1680

ttaaaaaaga atcttaatgt tttataatac aaagtaatga aaatgtgcaa aagaatttct 1740

tagacattca gtaatgtact tagacttttg aaaattcatg tgatggatgc agtaatacaa 1800

tgcccctcca agtgcctgtc ttaatgactt gtgtagttga tgaactgatg taaatttgtg 1860

tttattttta tacaactgaa tgaactctgt atgaaagtga ggtacggtta atagccacgc 1920

ctatattcaa ccagaatact tgtgaaatca atgtcctttt ttaaaaagta actttcaagg 1980

tctcttttt acaataaaca tttttgagta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2040

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 2084

<210> 11
<211> 2112
<212> DNA
<213> Artificial Sequence

<220>
<223> Zinc Finger protein SNAI2 of Homo sapiens

<400> 11
aaaacgggct cagttcgtaa aggagccggg tgacttcaga ggcgccggcc cgtccgtctg 60

ccgcacctga gcacggcccc tgcccgagcc tggcccgccg cgatgctgta gggaccgccg 120
tgtcctcccg ccggaccgtt atccgcgccg ggcgcccgcc agacccgctg gcaagatgcc 180
gcgctccttc ctggtcaaga agcatttcaa cgcctccaaa aagccaaact acagcgaact 240
ggacacacat acagtgatta tttccccgta tctctatgag agttactcca tgcctgtcat 300
accacaacca gagatcctca gctcaggagc atacagcccc atcactgtgt ggactaccgc 360
tgctccattc cacgcccagc tacccaatgg cctctctcct ctttccggat actcctcatc 420
tttggggcga gtgagtcccc ctcctccatc tgacacctcc tccaaggacc acagtggctc 480
agaaagcccc attagtgatg aagaggaaag actacagtcc aagctttcag acccccatgc 540
cattgaagct gaaaagtttc agtgcaattt atgcaataag acctattcaa ctttttctgg 600
gctggccaaa cataagcagc tgcactgcga tgcccagtct agaaaatctt tcagctgtaa 660
atactgtgac aaggaatatg tgagcctggg cgccctgaag atgcatattc ggacccacac 720
attaccttgt gtttgcaaga tctgcggcaa ggcgttttcc agaccctggt tgcttcaagg 780
acacattaga actcacacgg gggagaagcc tttttcttgc cctcactgca acagagcatt 840
tgcagacagg tcaaatctga gggctcatct gcagacccat tctgatgtaa agaaatacca 900
gtgcaaaaac tgctccaaaa ccttctccag aatgtctctc ctgcacaaac atgaggaatc 960
tggctgctgt gtagcacact gagtgacgca atcaatgttt actcgaacag aatgcatttc 1020
ttcactccga agccaaatga caaataaagt ccaaaggcat tttctcctgt gctgaccaac 1080
caaataatat gtatagacac acacacatat gcacacacac acacacacac ccacagagag 1140
agagctgcaa gagcatggaa ttcatgtgtt taaagataat cctttccatg tgaagtttaa 1200
aattactata tatttgctga tggctagatt gagagaataa aagacagtaa cctttctctt 1260
caaagataaa atgaaaagca cattgcatct tttcttccta aaaaaatgca aagatttaca 1320
ttgctgccaa atcatttcaa ctgaaaagaa cagtattgct ttgtaataga gtctgtaata 1380
ggatttccca taggaagaga tctgccagac gcgaactcag gtgccttaaa aagtattcca 1440
agtttactcc attacatgtc ggttgtctgg ttgccattgt tgaactaaag cctttttttg 1500
attacctgta gtgctttaaa gtatattttt aaaagggagg aaaaaaataa caagaacaaa 1560
acacaggaga atgtattaaa agtatttttg ttttgttttg tttttgccaa ttaacagtat 1620
gtgccttggg ggaggaggga aagattagct ttgaacattc ctggcgcatg ctccattgtc 1680
ttactatttt aaaacatttt aataattttt gaaaattaat taaagatggg aataagtgca 1740
aaagaggatt cttacaaatt cattaatgta cttaaactat ttcaaatgca taccacaaat 1800
gcaataatac aataccctt ccaagtgcct ttttaaattg tatagttgat gagtcaatgt 1860
aaatttgtgt ttatttttat atgattgaat gagttctgta tgaaactgag atgttgtcta 1920
tagctatgtc tataaacaac ctgaagactt gtgaaatcaa tgtttctttt ttaaaaaaca 1980
attttcaagt ttttttaca ataaacagtt ttgatttaaa atctcgtttg tatactattt 2040
tcagagactt tacttgcttc atgattagta ccaaaccact gtacaaagaa ttgtttgtta 2100

acaagaaaaa aa 2112

<210> 12
<211> 1722
<212> DNA
<213> Artificial Sequence

<220>
<223> Zinc Finger Protein SNAI1 of Homo sapiens

<400> 12
attcattgcg ccgcggcacg gcctagcgag tggttcttct gcgctactgc tgcgcgaatc 60

ggcgacccca gtgcctcgac cactatgccg cgctctttcc tcgtcaggaa gccctccgac 120

cccaatcgga agcctaacta cagcgagctg caggactcta atccagagtt taccttccag 180

cagccctacg accaggccca cctgctggca gccatcccac ctccggagat cctcaacccc 240

accgcctcgc tgccaatgct catctgggac tctgtcctgg cgccccaagc ccagccaatt 300

gcctgggcct cccttcggct ccaggagagt cccagggtgg cagagctgac ctccctgtca 360

gatgaggaca gtgggaaagg ctcccagccc cccagcccac cctcaccggc tccttcgtcc 420

ttctcctcta cttcagtctc ttccttggag gccgaggcct atgctgcctt cccaggcttg 480

ggccaagtgc ccaagcagct ggcccagctc tctgaggcca aggatctcca ggctcgaaag 540

gccttcaact gcaaatactg caacaaggaa tacctcagcc tgggtgccct caagatgcac 600

atccgaagcc acacgctgcc ctgcgtctgc ggaacctgcg ggaaggcctt ctctaggccc 660

tggctgctac aaggccatgt ccggacccac actggcgaga agcccttctc ctgtccccac 720

tgcagccgtg ccttcgctga ccgctccaac ctgcgggccc acctccagac ccactcagat 780

gtcaagaagt accagtgcca ggcgtgtgct cggaccttct cccgaatgtc cctgctccac 840

aagcaccaag agtccggctg ctcaggatgt ccccgctgac cctcgaggct ccctcttcct 900

ctccatacct gcccctgcct gacagccttc cccagctcca gcaggaagga ccccacatcc 960

ttctcactgc catggaattc cctcctgagt gccccacttc tggccacatc agccccacag 1020

gactttgatg aagaccattt tctggttctg tgtcctctgc ctgggctctg gaagaggcct 1080

tcccatggcc atttctgtgg agggagggca gctggccccc agccctgggg gattcctgag 1140

ctggcctgtc tgcgtgggtt tttgtatcca gagctgtttg gatacagctg ctttgagcta 1200

caggacaaag gctgacagac tcactgggaa gctcccaccc cactcagggg accccactcc 1260

cctcacacac acccccccac aaggaaccct caggccaccc tccacgaggt gtgactaact 1320

atgcaataat ccacccccag gtgcagcccc agggcctgcg gaggcggtgg cagactagag 1380

tctgagatgc cccgagccca ggcagctatt tcagcctcct gtttggtggg gtggcacctg 1440

tttcccgggc aatttaacaa tgtctgaaaa gggactgtga gtaatggctg tcacttgtcg 1500

ggggcccaag tggggtgctc tggtctgacc gatgtgtctc ccagaactat tctgggggcc 1560

cgacaggtgg gcctgggagg aagatgttta catttttaaa ggtacactgg tatttatatt 1620

tcaaacattt tgtatcaagg aaacgttttg tatagttata tgtacagttt attgatattc 1680

aataaagcag ttaatttata tattaaaaaa aaaaaaaaaa aa 1722

<210> 13
<211> 1613
<212> DNA
<213> Artificial Sequence

<220>
<223> Zinc Finger Protein SNAI1 of Mus musculus

<400> 13
cggagttgac taccgacctt gcgcgacccg gtgaccccga ctacctaggt cgctctggcc 60

aacatgccgc gctccttcct ggtcaggaag ccgtccgacc cccgccggaa gcccaactat 120

agcgagctgc aggacgcgtg tgtggagttc accttccagc agccctacga ccaggcccac 180

ctgctggccg ccatccctcc gcccgaggtc ctcaaccccg ccgcttcgct gcccaccctc 240

atctgggact ctctcctggt accccaagtg cggccggttg cctgggccac cctcccgctg 300

cgggagagcc ccaaggccgt agagctgacc tcgctgtccg atgaggacag tggcaaaagc 360

tcccagccgc ccagcccgcc ctcgccggcg ccgtcgtcct tctcgtccac ctcggcctcg 420

tccctggagg ccgaggcctt catcgccttc cctggcttgg gccaacttcc caagcagctg 480

gccaggctct cggtggccaa ggacccccag tcgcggaaga tcttcaactg caaatattgt 540

aacaaggagt acctcagcct gggcgctctg aagatgcaca tccgaagcca cacgctgcct 600

tgtgtctgca cgacctgtgg aaaggccttc tctaggccct ggctgcttca gggccacgtc 660

cgcacccaca ctggtgagaa gccattctcc tgctcccact gcaaccgtgc ttttgctgac 720

cgctccaacc tgcgtgccca cctccaaacc cactcggatg tgaagagata ccagtgccag 780

gcctgtgccc gaaccttctc ccgcatgtcc ttgctccaca agcaccaaga gtctggctgc 840

tccggaggcc ctcgctgacc ctgctacctc cccatcctcg ctggcatctt cccggagctc 900

accctcctcc tcactgccag gactccttcc agccttggtc cggggacctg tggcgtccat 960

gtctggacct ggttcctgct tggctctctt ggtggccttt gccgcaggtg gctgatggag 1020

tgcctttgta cccgcccaga gcctcctacc cctcagtatt catgaggtgt agcctctgga 1080

cacagctgct tcgagccata gaactaaagc caacccactg gctgggaagc ttgaaccccg 1140

ctcaggggac cccacttccc tacctccctc aaggaccctt caggccacct tctttgaggt 1200

acaacagact atgcaatagt tcccctcccc cccaccccgt ccagctgtaa ccatgcctca 1260

gcagggtggt tactggacac atgtccaggt gcccctgggc ctgggcaact gtttcagccc 1320

ccgcccccat ttgtcctggt gacacctgtt tcacagcagt ttaactgtct cagaagggac 1380

catgaataat ggccatcact tgttaggggc caagtggggt gcttcagcct ggccaatgtg 1440

tctcccagaa ctattttggg gcccaacagg tggccccggg agaaagatgt ttacatttta 1500

aaggtattta tattgtaagc agcattttgt atagttaata tgtacagttt attgatattc 1560

aataaaatgg ttaatttata tactaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 1613

<210> 14
<211> 3552
<212> DNA
<213> Artificial Sequence

<220>
<223> Zinc Finger Protein Scratch 1 of Homo sapiens

<400> 14
gtggggaccc gcgctgcctc cgccgctcct cggatggtga cggggccctg ccgccgcagc 60

cccccaagc cccggctccg caggcccaca gcgccggagc cccgcaggaa tcatgcccag 120

gtccttcctg gtcaagaagg tcaaacttga cgcgttctct tcggccgacc tggagagcgc 180

ctacggacgc gcccgcagcg acctcggcgc gccactgcac gataaagggt acctcagcga 240

ctacgtgggg ccctcgtccg tctacgatgg cgacgccgag gctgcgctgc tcaaagggcc 300

gtcgccggag cccatgtacg cagcagctgt gcgtggagag ctgggtccgg cggctgcagg 360

gtctgcgccg ccgcccaccc cgcgcccgga gctggccacc gctgcgggcg gctacatcaa 420

cggcgacgcg gccgtcagcg agggctacgc ggcggacgcc ttcttcatca ccgacgggcg 480

ctcgcggcgt aaggcttcca atgccggctc tgccgccgct ccctccacag cctcggcggc 540

ggcccccgac ggcgacgccg gaggcggggg cggggcgggc gggcgcagct tgggatccgg 600

gccgggggggc cggggcggca cgcgcgcggg ggcaggcacc gaggcgcgcg cggggccagg 660

ggccgcaggt gctggcggcc ggcacgcgtg cggcgagtgc ggcaaaacat acgccacgtc 720

gtcgaacctg agccgccaca agcagacgca ccgcagcctg gacagccagc tggcgcggcg 780

ctgcccgacg tgcggcaagg tgtacgtgtc catgccggcc atggccatgc acctgctcac 840

gcacgacctg cgccacaagt gcggcgtgtg cggcaaagcc ttctcgcggc cctggctgct 900

gcagggccac atgcgctcgc acaccggcga gaaacccttc ggctgcgcgc actgcggcaa 960

ggccttcgcc gaccgctcca acctgcgcgc gcacatgcag acgcattcgg ccttcaagca 1020

cttccagtgc aagcgctgca agaagagctt cgcgctcaag tcctatctca acaagcacta 1080

cgagtcggcc tgcttcaagg gcggcgccgg aggccccgcg gctcctgcgc cgccacagct 1140

cagccctgtg caggcctagg gcggcggggc ctcccccagc caggtcggct ctcagcaata 1200

cggcccccca gggaagtctt cgctggcgtc cgggtggagg ggccggaggg cgggcccctc 1260

ctcacagcaa taggggggagg ggggcccggt cccaccccgc cccgcccgcc aggggccttg 1320

ccggcccctt caagcaatag ggtcccgagg ggagacccac cccgagcccc ctcccctccc 1380

ctccagggtg cccccggctt tctcccagca atagggtcga cgagacctag aaccgaacct 1440

catctccgag ttgggtctct gaagacgggg gtgaggtgag gtagggagcg ccctccttct 1500

cccgcctctg cgcccctgga tcgcgtcgca gggactcagg tcttccccac cccttcccaa 1560

gccttctagc gcagggcctg cggcccagac gtccagggag ccggcccctc cccggcagca 1620

ggccggggcg gagcaggagc gggcgggcct gcagggacgc ccctgcctag cagccttcgc 1680

ggaactcccg gcagtgttag acgcgttgtg ggtcggggag aggggcggac ggcggcaccc 1740

cctccctcgg gttgcttctg gggcctcagt cggagccgcc ctcctaccct cgcctcgcat 1800

cctctgccaa atccgaattc ttccagccca gcttcccggg ctctgtcctc catatcgaat 1860

aataatgaca catatcgaat cgcatggact tatccgacct cctcagaccc cgcttccgcc 1920

ctgccccggg cccccacccc ccccccccgta ccccaggcat tcgtgttgga ggacggattc 1980

ccggggccgg caggcaggcc tgggcgctgc cctctacaca cctctgtctt cgctttgcgg 2040

gtaaagcccc ctgggggggt tgcggacgcg tcgggtttct ttttctgtat ttgtacgttt 2100

tatttatgaa cggattgcac tcgggtcagg gaggggggcgc tgaaccccca tcttgcccgc 2160

cgacgccggg ggcctgggat gtccgggatt actttccacg ccccgaggcc cgcccctagc 2220

tgggagcctc tagggagcct caggccccgc ctctccgagg caggcccctc ccctgagacc 2280

caggccccgc ccctgagacc caggccccgc ccccactcgg ttgccaactt tcgcccgtct 2340

atgccaaagc ctcggcggcg accccgcccc aagggcccgc cccattggcc gccgcctttg 2400

tgacgtcact gcatgcagcc ccacccctcc tcccgatcct acccggggct gcccgctccc 2460

cctccctctt aggtagtccg aagccgacta tagagcaata atgcgcactg catgcgaagc 2520

tgccgccgcc tctagagtta ctgagaatca ggtatccccct cgccctaccc accccatagg 2580

cccctagatc agggacgctg cgcggggccg gccgcgcaga ctttctcccc acccctcccc 2640

gacccccacg gcagagcccg gcggctgtaa tggttccatg ggcgggggtg gggtggttgc 2700

ccccaagacc cctccttcag gcattaatca ttcactgacc gttcattgag cacctactat 2760

gtgccaggcc aattgctgag tccgccagga gcgcagccac ctgctgggag gtgtgtttgc 2820

aggacagggg tccaaccggc ttgggtgggc cagggaagaa cggcagatgc agagagacca 2880

ggtccctagg ttcacatgcc ccctacactc ctccccacct caaccagtcc ctgctgggca 2940

caactgggct ctacctttga gttaggcctt ttgactccag ctgaggggga cagatccagg 3000

gctcctgggc ccccacacag gtggccactt ctctgatcct ctggccaaca cacatctgcc 3060

atgtccagcc aggggcagag ccatggctgg agaagaaggt gccagctgta gcctatggtg 3120

tggccagcct caccccccagc agcaagcgtg gctgccccca caaggatgac ccaccgctct 3180

gcacagcagt gcccacatcc aaacacccta cacaaccagg tgtggtgcct gcacagctcc 3240

caagctgggg cctgcccacc tgtgccgcat gcacacgcac acacaggcgc ccccacctca 3300

ccccacccca tactcctgtc tacctaccta aggagaaagc tggagggctg tgggcccgtc 3360

agggtctcct gcttcccccct acaccccgcc gccgtggaaa gccatgggcc ccctcccgcc 3420

cccataacta agcagcacaa taaccgactt agcgaattca ggtagaagga acgtttaggt 3480

agcacctatt ttgtactgat tctacaagta gggcccgagg tgcgggggcc ctcgggtggg 3540

ggctgcggcc gc 3552

<210> 15
<211> 3594
<212> DNA
<213> Artificial Sequence

<220>

<223> Zinc Finger Protein Scratch 2 of Homo sapiens

<400> 15

ctttcttctc tctctgtttc tctcttgtgt ctttttgtcc ttatcttggt ctctctgctt 60

ctatttctac ctctctcagc gtgtgcgtct ctctttccct gtatgtctct gtctttctcc 120

gagtctctct tcttctcccc gccccctca ctcccctttc tccgtccctc tctgtctctg 180

cgcctttctc gccctcactt tctcccctcc tgcctgctcc gggcctgccc ccaccgccgc 240

cggttcaggg gaacgtgtgc ggagcgattg tcctggggga catttgatgg attagagcgc 300

cgagcggttc cattgctagg ggaccacctg atctccagcc tgcgtcccat ataaagccgg 360

cagccggagt gctgagcgca gctcccgcga tcccctgtct gcgcgccgcc gccgccaagc 420

ccgagcccga gccggggccg ccgccaccgg tgccggctcc gagcggcctc ccgcgctcca 480

gcccgctggg agctgtccag tgctgaaaac ccgcgcggac acagccgatc gcgcccggcc 540

ggccgcctcc ccgcaccgag ccccgcgccg gccgcgccat gccgcgctcc ttcctggtaa 600

agaagatcaa aggggacggc ttccagtgca gcggggtgcc ggcccccacc taccaccct 660

tggagacagc ctacgtgctg cctggcgccc gggggcctcc cggggacaac gggtacgccc 720

cgcaccgcct gcccccgagc agctacgatg cggaccagaa gccgggcctg gagctggccc 780

cggccgagcc cgcgtacccg ccggcggcgc cggaggagta cagcgacccc gaaagcccgc 840

agtcgagcct gtcggcgcgc tacttccgag gggaggcggc agtgaccgac agctactcca 900

tggacgcctt cttcatctcg gacgggcgct cgcggcggcg gcggggcggg ggcggcgggg 960

acgcgggggg ctcgggagac gcgggggcg ccgggggcg cgcggggcgc gcgggggcgc 1020

aggcgggcgg cgggcaccgg cacgcgtgcg ccgagtgcgg caagacctac gccacgtcgt 1080

cgaacctgag ccgccacaag cagacgcacc gcagcctgga cagccagctg gcgcgcaaat 1140

gcccgacgtg cggcaaggcc tacgtgtcca tgcccgcgct cgccatgcac ctgctcacgc 1200

acaacctgcg ccacaagtgc ggcgtctgcg gcaaggcctt ctcgcggccc tggctgctgc 1260

agggtcacat gcgctcgcac accggcgaaa agccgttcgg ctgcgcgcac tgcggcaagg 1320

ccttcgccga ccgctccaac ctgcgcgcgc acatgcagac gcactcggcc ttcaagcact 1380

accgctgccg ccagtgcgac aagagcttcg cgctcaagtc ctacctccac aagcactgcg 1440

aggcggcctg cgccaaggcg gccgagccac ccccgccgac ccccgccggc ccggccagct 1500

gagccttccg cctcgccctc gcgcccggaa ctcgctctcc acgcgccccg ggccccctac 1560

ctgcgcccgc agcgccctcg cccagccccg gctgcgtttc cctgcccatg accctctcgt 1620

ggggaccccc ggcccggccc ggaacttttc tccccaaccc ccaaacccac gactcacttc 1680

cacaccgtct tccccagcgt cccccgaccc acttcatcct ttccggccat ccctcggacc 1740

ttgacccccc tgtccgcgcc ttcaaggctc ccaactcagg caccaggtcc gcacctctcc 1800

cgcgccccag agccggaaat ttctccctcc cagaccccgc gctgctcttc taacttctag 1860

atcttttctc tcgcttctca gctgaatctc tctgaccatt cctctactgg agcccccaat 1920

gaaagccgca aacctatacc cttgacgccc atacctgcct cagtttcccc atccacacct 1980

ggacgcaggc cctgccgccc tgagaccaca gtccaacccc agaccatccc tctggcctct 2040

gctgaatctc ccagagtgtg tccatctggg gatctaatct tcacccttct tgaagtctcc 2100

gatctgtccc tgatcccatc catgctcagg ccttaggtct ggccattcac acacacacac 2160

acccccacac cccactccca cacacagttc ctactgtctt cagtccatgg ggatctcatc 2220

acccactccc agccccagct ccagctgccc tcacctctct agcagctctc acccctctga 2280

gtctacctaa cctggagggg gcttgagggg cacttcaggg ccctgccccc taatgtaacc 2340

cctctctcac cccggcacaa cctgggcttc cacagtctgg agctgcccta cccccagatt 2400

ctctgagcac tttcccccat ccccagggcc acagatcccc ttccttactt gttgggggga 2460

ggtctggagc acctcgccaa tgcccttccc ccatccggct gggtccttcc agttatttat 2520

ttgtgtattt atttatttat ctatttatta ttctatttaa tctcttggcc tcacccaggg 2580

accgtctggc ttccccagct ggactgggag gtcaggaagc caggcaagga gagggacagc 2640

acaggccaca gagggctgcc cccaccacac acacccccgc gtctcgggag aaacccaccc 2700

tcttcagagc ctgcactcgc taaggaaggg gactcgagaa tgggggggca gcttgctgac 2760

cctcaactgg gggggtgagg gagcatcagg aggtccaggc gtggggcagg tccccacctt 2820

cctgaacctt cccctgccac tccaggcggc ccggagagag gagcctcttc gatttgtttc 2880

ctgtttattc ttcttcccga gggaccccag gttccaggga ccgactgagc cccggacccg 2940

ctggggcctc tggcctgctc cccgggaggg gcgctctctc ccggccatgt ctatgcaact 3000

ctcccggaca gaggggccgg gctgccagcc acccgcccgt tggccgccac tacctcctcc 3060

gctgcgcttt tgcatgcccg ggcgaggacc gaagcacaca cctccacgcg cacgggccct 3120

ggcccctcc gctttaagca cacgcctctg ccccattgct ctgcagccag cttgggggca 3180

ggagtcctgg actctcagat cctcctctcc cctcctctta gccacaaaag agggggggaga 3240

ctggaggcac ccctgcagca ggggcacttc cctagggctc cagaggggtg aatgggcctt 3300

tgctcagctc caggcccagc gggaagggag gctgcaggga tggtgggagg gagaggggta 3360

gcagaagcaa ttatggaggc gttgaccctg taaatagcaa cttctgacag caataatttt 3420

ccatgcatgc taagcctttt ggccatattt tgtatgagcg cttggcgctc ctcctccgtc 3480

ctatcccaac tcacccccaa acccccatcc cttccccacc tccagcagta ttacttgtaa 3540

cgcaattcag ggatattaaa gggactttgg ccactcaaaa aaaaaaaaaa aaaa 3594

<210> 16
<211> 4010
<212> DNA
<213> Artificial Sequence

<220>
<223> Zinc Finger Protein Scratch 1 of Mus musculus

<400> 16

ggggccgggc cagccctgca cccattcgca gcctccgggc ccgggacgga gccgctcccc 60

ccctctccgc ccccccagcc tcctcccccg cctgtccagg ggcggcactg cgggctggga 120

agccgggacc agaggaggga aggaaggaag gaaggaaaga agagaaaaga agagaagagg 180
aggaaggaag gaaagaagga aggaaggaag gagagagaaa gagaggaggg atccggagag 240
gaagaagaaa agacgcaggg cagaaagaag agagaggacc acactcgccc agcagcatcc 300
acaggccaga caggggacag tgctgcttcc accgctcctc ggatggtgac ggggcctcgc 360
cgcggacgca gtcccctga gccccggctc tgcaggccct cactgccgga gccctgcagg 420
aatcatgccc aggtccttcc tggttaagaa ggtcaaactt gacacattct cttcggcaga 480
cctcgacagc tcctacgggc gcgcccgcag cgatctcgga gtgcgactgc aagataaagg 540
atacctcagt gactacgtgg ggcctgcgtc ggtctacgat ggcgacgctg aggcggcgtt 600
gctcaaaggg ccatccccgg agcctatgta tgctgcggct gtgcggggag agctgggtcc 660
cgcggcctct ggctcagcac cgccgcccac ccctcgccca gagctggcta ctgctgctgg 720
cggctacatc aacggcgacg cggcggtcag cgaaggctac gcggccgacg ccttcttcat 780
cactgacggg cgctcacgcc gtaaggctgc taatgccaac gctgccgcgg ccccctcgac 840
agcctcggtg gcagcccccg acagcgacgc tggaggtggg ggcgggccgg gcacgcgagg 900
ctctggatca gggtccgcta gtcggggcgg cacgcgcgtg ggggcgggca ccgaggcgcg 960
tgcggggtcg ggagccacgg gcgctggtgg ccggcacgcg tgcggagagt gtggcaaaac 1020
ttacgccacg tcgtcgaacc tgagccgcca caagcaaacg caccgcagct tggacagcca 1080
gctggcaagg cgttgcccaa cgtgtggcaa ggtgtacgtg tccatgccgg ccatggctat 1140
gcacctgctc acgcacgatc tgcgccacaa gtgcggcgtg tgcggcaaag ccttctcccg 1200
gccctggctg ctgcagggcc atatgcgctc gcacacgggc gagaaaccct tcggctgtgc 1260
gcactgcggc aaggcctttg cagaccgctc caacctgcgc gcgcacatgc agacgcactc 1320
cgccttcaag cacttccagt gcaagcgctg caagaagagc ttcgcgctca agtcttatct 1380
caacaagcac tacgagtcag cctgcttcaa gggcggcgct agcggccccg caacccctgc 1440
gccgccgcag ctcagcccgg ttcaagccta gggcagcggg gcctccgcca gccaggtcgg 1500
ctctcagcaa tacgggcccc cagggaaatc tccgctggcg tccgggcgga ggggctggag 1560
ggcgggcccc tcctcacagc aataggggca gggagccggc cccaccccgc cccgctcgcc 1620
aggagccttg ccagcccctt caagcaatag ggtcctgagg ggagacccac cccgaaaacc 1680
ctcccctctc ctccagggtg ccccaggctt tctcccagca atagggtcga ccagacccag 1740
aaccgaacct catctcttag ttgggtctct gaagacaggg ggtgaggtga ggtaaggagc 1800
gccctcctcc ctcctctgcg cccctggatc gcgttgcaga gactcaggtc ttccccaccc 1860
cttcccaagc cttccaggcc aagccttcag tccggcgtcc agggagtcag ctccactcgg 1920
gcagctggcc ggaggaggag caggatatca ggcgggccac agaggcgttc tgttccgcag 1980
gctttgcaaa cctcccggga gtgctagacg atttggggat ggggaggggc gcggacggcg 2040
gcaaccctct tcctcgggtt ctttctaggg cctcagtccg agcctccctc caacccacgc 2100
ctcgcatcct ctgccaaatc ctaattcttc cagcccggct tccggggctc tgtcctccat 2160

aacgaataat aatgacgcat atcggaatcg catgaactta tccgacctac tcagaccccg 2220
atcccgccct gccccgggcc ccctccctcg ctccccaggc ttcgggtgtt ggaggacgga 2280
tgcccgggcc ggcaggctgg cgtgccactg ccctctacac acctctgtat ttgctttgcg 2340
ggtaaagccc cctgggggggg ggggttgcgg acgcgtcggg tttctttctt tctgtattta 2400
tacgttttat ttatgaacgg attgcactcg ggtcagggag ggggcgccga accctcatcc 2460
ttcccgccga cgcccggggc ttaggctgtc caggaccact tcctctgccc ccgaggccgg 2520
ccctttcctg gaggcccagg ccccactccc actcggttgc caactttcac ccgtctatgc 2580
caaagcctcg gcggtgaccc tatcccaagg gccccgctcc attggccgcc gcctttgtga 2640
catcactgca tgcagtccca cccttcttcc caacccttcc cggggctgcc cgctcccctt 2700
cctcttagtt agtccgatgc agactataga gcaataatgc gcactgcatg tgaagctgcc 2760
gcagcctcta gagttactga gaatcaggta tcccctgccc tacccatccc ataggccccc 2820
agatcaggga tgctgcgcgg ggccggccac gcagactttc tttccccata ccctacccca 2880
gggcagagcc cggcaggcgt catggttcca gaggctggga tggaatggta tcacccaagt 2940
cctctcttgt cagtccttca tcactcaccg acccatcatt gggtacctac gatatgccag 3000
gcccattcct gaatccgtca gagatgtggc aaccttctgg aggtgcccat cagtgacagg 3060
gcccaatacg cataggtagg ccagggtgga aggcagatgc agagggctga atccctgggc 3120
ccctatggcc tctcctaccc acctcagtcc tagaatacgc tgggtgtagt caggctctgc 3180
ctttgacttg ggccttatgt tcccagctca aattggacag gtcccagggt ctctggggcc 3240
cagcttcacc agggccaccc atacaggtac ccattttctg attccctgag atacgaggct 3300
ctgctgtctc tgtgccgcta aggtgcaaca tgctggagta tatgatatgg ccagtctcaa 3360
cccagcacca agcttggcta accctcctgg tgcggacccg caggcctagc ataacagtgc 3420
ccatatctaa ccccccttact ccacctggca aaatgcccac agttcctagc ctgggcctgc 3480
cagcctgtgc cgcatgcaca cgcacacaga ggcgcccacc ccgccccact ctctactcct 3540
gtctacctac ctatggagaa ggctggaagg gctgtgggcc cgccaggatc tcccgcttcg 3600
cccacaccct gccgccgtgg aaagccatgg gccccctccc gcccccataa ctaagcagca 3660
caataaccga cttagcgaat tcaggtagaa ggaacgttta ggtagcacct attttgtact 3720
gattctacaa gtagggcccg aggtgcgggg ggccctcggg tgggggctgt ggctgccggc 3780
ccgccccgcc cccacccccg cctgcgcccc gccaccttgt acatactcct ggcccgcaac 3840
aggccgggat ttttactcgg gccgtgtccc tcttccgccc ccgtttgggg ccgggccggc 3900
cggacagacg gacggacgga cagacctcct tcctaagcac aatagcacca gctcctcgga 3960
gcgccgcacc tccacgagga gaataaatgc cactcttgat agaatttgga 4010

<210> 17
<211> 3395
<212> DNA
<213> Artificial Sequence

<220>
<223> Zinc Finger Protein Scratch 2 of Mus musculus

<400> 17
tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc 60

tctctctctg cgcctgtgtc cctctcactc tctcccctcc tgcttgctca ctgctcgttc 120

ctctctgcgc ctggcctgcc cccaccgccg gttcagggga acgtgtgcgg agcgattgtc 180

ctgggggaca tttgatggat tagagcgctg aacagttcca ttgctggggg accacctgat 240

ctcctccagc ctgcgtccca tataaagccg gcagccggag tgctgagcac agctacagcg 300

accgcctgtg tgcgcgccgc cgccgccgcc gtcgccgccg ccgccgcgcc cgagcggcac 360

ccgagcccga gccgcgaccg tcgccacccc gccggctccg cggacgcccg cccgctggga 420

gctgtccagt gctgaagccg gcgccgacag ccaatcgcgc cggccggccg cctcccccac 480

cgggcctccc gtgccctgcg agcccccccgc ccggctgcac catgccgcgt tccttcctgg 540

tgaagaagat caaagcggat ggcttccagt gcagcggggt gtcagccccc acctaccacc 600

ccctggagac tgcctacgtg ctgcctggca cccgcgggcc tccgggggac aacggttatg 660

tggcgcactg tctgcccccc agcggttacg atggcgagca gaagcctggg ctggagctgg 720

cgcccgccga gcccgcctac ccggccgcgg cgtccgaaga gtacagcgac cccgagagcc 780

cacagtccag cctgtcggcg cgctacttcc gcggggaggc ggccgtgacc gacagctact 840

ccatggacgc cttcttcatc tctgacgggc gttcgcggcg gcgccgggcc ggggctggcg 900

gggacgcggc gggcgcaggg gacgcgggcg gcggcggcgg tggcggcggc ggcggggagc 960

gcgcggggcg ctcgggggcg acggcgggag gcgggcaccg gcacgcatgc gcagagtgcg 1020

gcaagacgta cgccacgtcg tcgaacctga gccgccacaa gcagacgcac cgcagcctgg 1080

acagccagct ggcgcgcaag tgcccgacgt gcggcaaggc ctacgtgtcc atgcccgcgc 1140

tcgccatgca cgtgctcacg cacaacctgc gccacaagtg cggcgtgtgc ggcaaggcct 1200

tctcccggcc ctggctgctc cagggccaca tgcgctcgca caccggcgag aagcccttcg 1260

gctgcgcgca ctgcggcaaa gccttcgccg accgctccaa cctgcgcgcg cacatgcaga 1320

cgcactcggc cttcaagcac taccgctgcc gccagtgcga caagagcttc gcgctcaagt 1380

cctacctcca caagcactgc gaggctgcgt gcgtcaaggc cgccgagccg ccgccttccg 1440

ccggcccggc cagttgagcc tctgccatgc gggatgcccg ccgaggcttc tctcccaccc 1500

ctcagtctgc gtctcccctg cctgcgccct cggtggggtg ggggtgaacc ccatcttggc 1560

ctagaacttt cttttcaacc cccgactgaa cccaccactc atttcctgca tcggatctcc 1620

cttcgcaccc acccactttg tccattctgg ccaccactcg gaccttgacc cccatgtctg 1680

gccttcaagg ctcccaactc aggcaccagg tccgtacctc ttccatgtcc cggcgctgga 1740

agtttctccg gccccgactc taggctgtgc tccttaacta gatctttctt ttcatttctc 1800

agcagagtca ttggccattc ctctattgga gccctcaatc caaacccaaa tgtacccttg 1860

atttcctatc tgcctcagtt tccctgtcca cacagtccaa tcccttgggt ctctgctgaa 1920

tttccgtgtg tgtgtgtgtg tatgtgtgtg tgtgtcccca taccgtaatc taatcttcac 1980

cactcttgga gtcctctgcc tgtccattcc tgagcccctc catgcttggg ccttaggtcc 2040

agcctcttac acacacgatt ccacctgaca ttatcagtcc tcccggatct catcagacat 2100

cctgctctct ccagctccat cttcccacta gtagctccca gtcctcagtt ttcctagctg 2160

ggaacagact tgggaggcag cccaaggctc tgccctctca ggtgacccct cttgccccag 2220

gaaagttcct gtctaggcct caggcctgga gctgcgattt cccagactat ctgagcactt 2280

tccctcgccc caggactaca ggttcgcctc tgcctttgct agagaacagc ctggagcacc 2340

tcacccatgg acacatcccc tcgtccggca gggccccttc cgctatttat ttgtgtattt 2400

atttatttat ctatttatta ttctatttaa tctcttggct tcacccaggg actgtctggc 2460

ttccccagct ggactgggaa gtcaaagggt agagtcagca aggccgtccg tcgctggctg 2520

ctcctccccc tatgggtctg gggagaagcc cacccttatc agagcctcaa ctccttagga 2580

agagaggcct ggagaaatgg ggggaggcgg agcctgctta gcctcagctg ggtggggagg 2640

ggccatcaga aggtcctatt tgggggcagg tccccggcct tctgcgcctt ccactcctgt 2700

cccaggaagc ccttctggag cctctccctt tgtttcgtat ttattcctct ttcagaggga 2760

ccccaggttc cagggaccga ctgagccccg gacccgctgg ggcctctggc ctgctcccgg 2820

gaggagtgct ctctcccggc cacgactatg caactctccc gggcagaggg gccgggactg 2880

ccagccaggc gcctattggc caccactacc tcctccaccg cgcttttgca tgcccgggcg 2940

aggaccgaag cacacacctc cgcgcccacc tgcccggccc cctctgcttt aagcacacgc 3000

ctctttccac gtccctctgc gttccctttg tgggcaaaag tcctggacac tcagacctcc 3060

ttcccctccc cctagccaca aaagagggtg gagattgcag accgctccag gttgctctct 3120

agggtttcgg aggggtggag cttcgttagg ccccaggctc caggaggaag tctgcagaga 3180

tggtgggaga gagaggggtc accagaagca attttggagg gtgctgaccc tgtaaatagg 3240

aacttctgac agcaataatt tcccatgcat gctaaatctt ttggaccctc ccttgccgta 3300

cccccaactc acccccccac ccctattcct tccccacctt cagcagtatt acttgtaacg 3360

caattcaggg atattaaagg gactttggcc actca 3395

<210> 18
<211> 1713
<212> DNA
<213> Artificial Sequence

<220>
<223> Zinc Finger Protein SNAI3 (Smuc) of Homo sapiens

<400> 18
cagcagtccg gacccaggcg cgcccctccc gccccagccc accccggcct gccgcccggg 60

aggggaacat gccgcgctcc ttcctggtga aaacgcactc cagccacagg gtccccaact 120

accggcggct ggagacgcag agagaaatca atggtgcctg ctctgcctgt ggggggctgg 180

tggtgccccc cctcccccga gacaaggagg ccccttctgt gcccggtgac cttccccagc 240

cctgggaccg ctcctcggcc gtcgcctgca tctccctgcc cctcctgcca cggatcgagg 300

aagctctggg ggcctctggg ctggacgcct tggaagtcag cgaggtcgac cctcgggcca 360

gccgggccgc cattgtaccc ctcaaagaca gcctgaacca cctcaacctg cccccactgc 420

tggtgctgcc cacacggtgg tccccgacct tgggcccaga ccggcacggg gctccggaaa 480

aactgcttgg ggctgagcgg atgccccgag ccccgggcgg ctttgagtgc ttccactgcc 540

acaaacccta ccacacgctg gccgggctgg ccaggcaccg gcagctgcac tgccacctgc 600

aggtggggcg tgtcttcacc tgcaagtact gcgacaagga gtacaccagc ctgggtgccc 660

tcaagatgca catccgcact cacacgctgc cctgcacctg caagatctgt ggcaaggcct 720

tctccaggcc ctggttactg cagggccatg tccgcaccca cacaggggag aagccctatg 780

cctgctcgca ctgcagcagg gcctttgccg accgctccaa ccttcgggcc catctgcaaa 840

cgcactcaga cgccaagaag taccggtgcc ggcgctgcac caagaccttc tcccgcatgt 900

ccctcctggc gcggcatgag gagtctggct gctgcccggg cccctgagag gcacgtggtc 960

ggcgcaggta ggagggatgg tcctcaccgg gagagctggc gtccctcctg cccccagagg 1020

agccaggagt ctgggagggc ggggcctggc ctcacacttg gtgcgtcctc cacatctgcg 1080

tccaatcaga accaaagaag tccagcgggg gccactgggc cggaggacac tcccccaggc 1140

atcccaccgc gcggagccca ctcagaggag actcctctcc cggggaaggc tttcatcaga 1200

acaagagcca tggttccatt tcgacacggc caggtctccg gggctaccct tccaagagtc 1260

agagcctcgg ggaggtggcc gccagcatgg gccggcactg ccgccggatg gctggcaagg 1320

ctgcctagtt ccattgcagc agaaatgaac agttctgact tatagtgagc accgccctgt 1380

ggcccttcct cagtaggcac aactacctct cagccagccc ccgccagcct ttggtttggg 1440

gtctgggacg agctgcccca tgtcacacgt ctatgtgcat gtgcacacac actcaaacat 1500

gtacacacac gtgccctccc cacctcacta gactctccgg gagatggggc aggactggga 1560

gagcccacga ttggtgattt gggtgtgttg ggatgaggcg gagtgcctgt gggatttgtc 1620

ccggtcagag cctcaggggg ctggggtctc agggcactca gcttcccagg caataacagc 1680

cgtggggtaa taaatggtct ctgcacacct gca 1713

<210> 19
<211> 1589
<212> DNA
<213> Artificial Sequence

<220>
<223> Zinc Finger Protein SNAI3 (Smuc) of Mus musculus

<400> 19
gccggcgccg ccagactctg cagtcggtaa tcccgctgca ggctctggct agactctgcc 60

tgctctcggg aggggaccat gccgcgctcc ttcctggtga aaacgcactc cagtcacagg 120

gtccccaact acgggaaact ggagacactg agagaagcta atggctcctg ctctgcctgc 180

aaggagttgg caggatcccg ccacctgcca gatgaggagg ccccttgcaa tcccagtgac 240

ccctacagc cttgggacag tacctctgcc gttgcctgca tctccctgcc tcttctgccg 300

aatcacagag aaactctggg agtctctggc ccagaacctc aggaaaccag ctgggtgggc 360

cctcgggctg cccaggcccc cagtgtgact cttaaagaca gcttcactct acccccgctg 420

ttggtgctgc ccacacgctg gcccccaatc ctgggcccag acggagctct aaatgaacat 480

ctcagggctg aggggacatc tcgagtccca ggtagctttg agtgcatcca ctgccacagg 540

ccgtatcata cgctggctgg cctggccagg caccagcagc tgcactgtca cctgccgact 600

gggcgcgcct tcacctgcag gtactgtgac aaggagtatg ccagcctggg tgccctcaag 660

atgcatatcc gcacccacac gctgccctgc atctgtaagg tgtgcggcaa ggccttctcc 720

agaccctggc tgctccaggg tcacatccgc acccatacag gtgagaagcc ctatacctgt 780

tctcactgca gcagggcctt cgctgaccgc tccaacctga gggctcacct gcagactcac 840

gttggtacca agaagtacag gtgcgccgtg tgccccaagg ccttctcccg catgtctctc 900

ttggcgcggc atgaggaagc cggctgctgt cctggcccct aggtgggcac agcagggtgg 960

aggggccaaa cccgacaatc ctctcagtgg ttctgtcatc caggacaggg cccagttcac 1020

tgttacctgt gtcctgccag aaccaagccc agtggagcct tcgggcatct tcccctaagg 1080

cctgtgttcc gaggagactt atcaccagga ggctcaccaa aataagaacc aacagttccg 1140

ttttttcagt ttggcctgtc tgctggacct gttccaaaaa ggagcgccta ttgggaaata 1200

gctaacactg gacaaaatcc accatgacac ctgggtcccc ttgtgtgcag cttggaatga 1260

ccatttttac ttgagagcac agtgtgtgca caaccttggc aagcatagct acctcttagc 1320

gccaggctca gttgccttca cctcggggtc agagacacat tttctcctgc cccttatgta 1380

cacatgcgtg tatatacaca agcacaggta caccctggcc ccaccctgta agatgaggca 1440

gggccaggga ggagtgggct aaagccaggt cccacctcat ctgtcctcag cactgttgtc 1500

ctgcttgggg ctggcctcgg tggctggtta acgtctcagg agagcagcta tgtgtaataa 1560

agagcctcca cgctcaggtc tcctgtctt 1589

<210> 20
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> si-Control for Example 12 (1st strand)

<400> 20
gcaacaguca guccgucua 19

<210> 21
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> si-Control for Example 12 (2nd strand)

<400> 21
uagacggacu gacuguugc 19

<210> 22
<211> 25
<212> RNA
<213> Artificial Sequence

<220>
<223> si-ZO-2 #2 for Example 12 (1st strand)

<400> 22
ccuaaagcug uggaccuguu gaauu 25

<210> 23
<211> 25
<212> RNA
<213> Artificial Sequence

<220>
<223> si-ZO-2 #2 for Example 12 (2nd strand)

<400> 23
aauucaacag guccacagcu uuagg 25

<210> 24
<211> 32
<212> RNA
<213> Artificial Sequence

<220>
<223> si-ZO-2 #3 for Example 12 (1st strand)

<400> 24
gcucuggcaa cuaaagaugg caaccugcac ga 32

<210> 25
<211> 32
<212> RNA
<213> Artificial Sequence

<220>
<223> si-ZO-2 #3 for Example 12 (2nd strand)

<400> 25
ucgugcaggu ugccaucuuu aguugccaga gc 32

<210> 26
<211> 507
<212> DNA
<213> Artificial Sequence

<220>
<223> Guanylate kinase (GUK) domain of ZO-2/TJP2

<400> 26
aagagacctg tggtcttatt tggccctata gcagatatag ccttggaaaa gttggcaaat 60

gagttaccgg acctgttcca aactgctaaa acggaaccaa aagatgcagg atccgagaaa 120

tctagtgggg tggtccggtt aaatactgtg aggcaaatta ttgaacagga taagcatgca 180

ctattggatg tgactcctaa agctgtggac ctgttgaatt atactcagtg gttcccgatt 240

gtgatttttt tcaacccaga ctctagacaa ggtgtcaaaa ccatgagaca gaggttgaat 300

ccaacatcca acaaaagttc tcggaagttg tatgatcaag ccaacaagct taagaaaacg 360

tgtgcacatc tttttacagc tactatcaac ctaaattcag ccaatgatag ctggtttggc 420

agcttgaagg acacaattca gcatcagcaa ggagaagcag tttgggtctc tgaaggaaag 480

atggaaggga tggatgatga ccctgaa 507

<210> 27
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Guanylate kinase (GUK) domain of PSD-95 (A534 to V563)

<400> 27

Ala Arg Pro Ile Ile Ile Leu Gly Pro Thr Lys Asp Arg Ala Asn Asp
1 5 10 15

Asp Leu Leu Ser Glu Phe Pro Asp Lys Phe Gly Ser Cys Val
20 25 30

<210> 28
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Guanylate kinase (GUK) domain of PSD-95 (V613 to L724)

<400> 28

Val Gln Ser Val Arg Glu Val Ala Glu Gln Gly Lys His Cys Ile Leu
1 5 10 15

Asp Val Ser Ala Asn Ala Val Arg Arg Leu Gln Ala Ala His Leu His
20 25 30

Pro Ile Ala Ile Phe Ile Arg Pro Arg Ser Leu Glu Asn Val Leu Glu
35 40 45

Ile Asn Lys Arg Ile Thr Glu Glu Gln Ala Arg Lys Ala Phe Asp Arg
50 55 60

Ala Thr Lys Leu Glu Gln Glu Phe Thr Glu Cys Phe Ser Ala Ile Val
65 70 75 80

Glu Gly Asp Ser Phe Glu Glu Ile Tyr His Lys Val Lys Arg Val Ile
85 90 95

Glu Asp Leu Ser Gly Pro Tyr Ile Trp Val Pro Ala Arg Glu Arg Leu
100 105 110

<210> 29
<211> 90
<212> DNA
<213> Artificial Sequence

<220>
<223> W199 zinc finger 3 domain (ZNF3) of Mus musculus Slug

<400> 29
acattgcctt gtgtctgcaa gatctgtggc aaggctttct ccagaccctg gctgcttcaa 60

ggacacatta gaactcacac tggggaaaag 90