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tccgccaatg gtgccgacaa tgccagcaac gctgaacatt ccgatgacat gcccaccgtg 180

ccgattcccg cacgcaaggc tgccacgacg ttcgacaccc cctccaagcg tgagcgcatc 240

<210> 25
<211> 180
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<220>
<223> DNA sequence of signal peptide SP23

<400> 25
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ccgttgaccg cctgtgaagg ccaactgccg acgccggctg ctgatacctc caccaaggtt 120

gcgccggatt tgaccgaggc gcaggagaag aagattcgtc tgaagattct caagacgatc 180

<210> 26
<211> 180
<212> DNA
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<400> 26
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gtggtcaaca acaccggcta cgtctcggcc gatatgcgtg ccaaagtcga gtccgcgatg 120

cgccagctca actacattcc caacgagctg gcccgcaacc tctaccggaa ccgcaccaac 180

<210> 27
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<212> DNA
<213> Artificial

<220>
<223> DNA sequence of signal peptide SP25

<400> 27
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gcaagagatt gcacagcttg cgttagggtg gagaacatga ctatcacagt atccacagac 120

ggttccgcat tagggaatcc aaacgggcca atgggctggg cctgggccga tcatgagcag 180

<210> 28
<211> 234
<212> DNA
<213> Artificial

<220>
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<400> 28
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ccgctggcgt tggcggccac gctagccgtg acgcctgcaa tcgcacaggc cgaccagctg 120

cccaacccgg attgggtggc attgctctcc gactacgaaa agaactattg gcaggccccc 180

gccgatgccg aacacggtgg caaggtgctc gacgccgata caatgaaact cgac 234

<210> 29
<211> 441
<212> DNA
<213> Artificial

<220>
<223> sequence of SP1 with promoter

<400> 29
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cttgaagcgg acgttgatgc ccatcttgcc gctcaggtgg tcgaacagtc cattgactaa 120

cgtgataaac atcacagtat attcgtgagc gctaacaacc gttgaaaaca ttaccatacg 180

gttgtcaaac agggtggtgt gccggtagca aaacgtctta gcgggtttat agagtgaaga 240

cgttagttac aaggcctgcc attcatcagc agaccgcctt tgaagagagg ttcatccatc 300

atggcggaaa ctaccgttaa gcccacgaag cttgctgtta ttggtgccgg tgccgttggc 360

tccaccctcg ccttcgccgc tgcccagcgt ggcatcgctc gcgagatcgt gcttgaagac 420

atcgccaagg agcgcgtgga a 441

<210> 30
<211> 456
<212> DNA
<213> Artificial

<220>
<223> sequence of SP2 with promoter

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attttgccca tattgaatc acgcgctccg cagcacacga tcgacgtggg ccacgacctg 120

gaacaactcg gcggcgtgct tgagcagact gatgcgcacc cagccttcgc ccgcctgacc 180

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cccgccgaga cttccgccgt ctcccccgca actcgcgcag ccaaccgccc gctgggcaca 420

ccgctgggca agcaccccac ccgcgtgctg tttttg 456

<210> 31
<211> 465
<212> DNA
<213> Artificial

<220>
<223> sequence of SP3 with promoter

<400> 31
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ccgggattcg tattcgacgg cttcacactc gaacagtgaa cgccatttcg ctctgcgcca 120

atatgagata tccgtccgct tacgcgccag attgcgcggc tctagtcggc cataagcaat 180

ggcgatagcc agcatccgaa aatatcgatg ttttgtaacc caatagccat acaattggcg 240

cgaatgcatc aagcacggtt tgaaccgtgt gcatgacgag cacttgagga gaggaaaccc 300

atgttcaata agcgacacat cgtccgtacc attgcggcca ccgccagcat cctggctctg 360

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gacatcaccc agcagacgta caagccgggc aagctgacca tcgcc 465

<210> 32
<211> 495
<212> DNA
<213> Artificial

<220>
<223> sequence of SP4 with promoter

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ttccttcctt gttatgggaa acgacgggac ttggcgtttt gttccaagcc ttgtatcgtt 180

tcaaagaaac ggtaccacat gttttatgtt tacgcaaaca cgacacgtcg caccatagtg 240

actaaccaca aaccgaaacc atagtgacta accgcaaacc gaaggagatg catcccgctc 300

atgaccactc acaacagcca gtattccgcc gaaaccgccc atcccgacaa gcaggaaagc 360

agcccggcgc cgaccgccgc cggcaccacg gccagtaacg tctccacaac tggcaacgca 420

accacgccgg acgccagcat cgccctcaac gccgacgcca ctccggtagc cgacgttccc 480

ccgcgtctgt tcggc 495

<210> 33
<211> 477
<212> DNA
<213> Artificial

<220>
<223> sequence of SP5 with promoter

<400> 33
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acttcggaca gaggcatgtt ggaaaacttc tgcatatcat ccctcctcaa tggaattatt 120

tcgtcgttct cttatttcag aaggaattat tacattcaat taggacttta ggcataaaca 180

ttccaccaca caacagaaaa cacaggaaga actactgaaa ttaccaggca aaatcggaaa 240

gccatcgcat tccggcaaca ggtacagtga acacagagca caacgaacgg agaagacacc 300

atgaccgcga ttgacgagac cgaccagcgc atcctcacca tgctggaggc cgacggccgc 360

gccacgctcg cgcaactggc ccaggcgacc ggactgtccg tctccgccgc ccagtcgcgc 420

gtgcagaagc tggagaagcg cggcatcatc aagggataca aggccatcat cgaccaa 477

<210> 34
<211> 441
<212> DNA
<213> Artificial

<220>
<223> sequence of SP6 with promoter

<400> 34
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ccttggaagc tgacgtgttt tgattttcac gaatgacgcg ataattacgt tttcgggatg 120

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atgaagattg cggttgcagg gactggctac gttggattgt ctgtcgcttt gctgctcgct 360

cagcacaatg aagttcatgc actcgacatc attcccgaga aagtcgagca gttaaacaat 420

gggaaaagtc ctattgtcga t 441

<210> 35
<211> 426
<212> DNA
<213> Artificial

<220>
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tccacc 426

<210> 36
<211> 504
<212> DNA
<213> Artificial

<220>
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cgacggtagg ctggatcgta ttcgccgacg ccggtgacgg cgcgtacgcc ggagccgaac 120

gcgcgcggaa tcgcgagcag gatcttcttc cacaacggct caggttcgag gtcaagctcg 180

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cgcgttcgtc tgagtcgatt ccccgctggg gcgcgaatat gccttatcat gggttgcatg 420

acacccgcag agcgtgcgag cgcagtcgca tttgcactca agaactgcgc actggaagcg 480

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<210> 37
<211> 426
<212> DNA
<213> Artificial

<220>
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ggctaccggt accctcgccg actccgatca gctcgccgcc ctgcgcgacc agctgctcgg 120

caagtgagtt tgccgcgaag ctagcgctta gcgtgtaaag aaacccggtc cgattgggcc 180

gggtttcttg tgtttttgga gttatccgcc aatgactccc ctcagtctcg ctacgcgagc 240

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atgggcacca tgatgcgaat aggactgacc ggcggcatcg ccgcgggcaa aagtacggtg 360

gcggcgcaac tcaagcaact cggcgcgttg catatcgact acgatgcgct ggcgcatcag 420

atcgtc 426

<210> 38
<211> 453
<212> DNA
<213> Artificial

<220>
<223> sequence of SP10 with promoter

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ggctccggtc gtgtgaccaa gatcctcgcc tgattttcat cagacaagaa tcttcgcttg 120

aactagcgtt atagaaaatc cccttcgagg aaactcggag gggattttct ataaccgcaa 180

caggatatgg atatgtacca cgacttccgg cctggatgcg ctagtgttgc tttccaatag 240

ataaacggac tgctgcactg cgaggatatg acactgatgg caggccggga aagaaggtcg 300

atgatgactg gtgcacaggc cgctcactgt ggttctgtat ccgcaatttc gctgggactg 360

cccgtttcca cggcgattcc cgaagccaaa ggctcactgc cgaaagcctt gttcgtaggc 420

aaagcgccga tttccggcaa actcaagcag cga 453

<210> 39
<211> 456
<212> DNA
<213> Artificial

<220>
<223> sequence of SP11 with promoter

<400> 39
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tgccatggga gcagtggcgc gcggattgcg ataccaagat ggcgtgttgc cgaagaatgt 120

gtataataaa agatgttatc gcaaccatag ctacaaagtg gcgaaacaaa gccgttttgt 180

gactactgaa ccatagagtg atggttcacg atagcatgac gacgaggaga gttgccatgc 240

tgttgtggtg acaatcactg cagaccgccg aaaggcgatc caaggaagga gaacagaacg 300

atgaagttca ccgttgctaa gaaggccatt gcacttaccg gtgcggttgc catgctgggt 360

tccgttgccg cctgcggttc cgacaccgcc agtggcaagc cggctcaaga taaggacgtt 420

accgaaatca ccgtgtgggc ttgggagccc acgctg 456

<210> 40
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<212> DNA
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<220>

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agaaaaaacg cgaaaatgcg aaagcgcttt tgcaaaaact tccatgttcg tttatattga 180

gaaaaggctt tcgcagtgtt acctgctccg ggcaaaggag cgagcagggc gaaaccaagg 240

aggcggaccg tccgccaccg cctctcatag ttgagcggat atatagagaa agaagcgaac 300

atggtgtctt tcaataaact gacccgtact cttgctggca tcgctgccgc cgcgttgatc 360

gttccgctgg ccgcctgtgg tggctccggc aatggtggca ctgccaccgc cgaaggtatc 420

ccggccaagg gcaccgacga tggtaccgag atcaccctgt ggacccgttc c 471

<210> 41
<211> 438
<212> DNA
<213> Artificial

<220>
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tgctgtgcta gcgagtct 438

<210> 42
<211> 486

<212> DNA
<213> Artificial

<220>
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cataagtaac tatatgcagg ctctagacaa acccaacggc ctgcgcgccc gtgtcgagtt 240

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ttgccgggac ctatatgtcc ccggcaacaa cagccgtata tacgctaccg atcagtgctg 360

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<210> 43
<211> 400
<212> DNA
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<220>
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aggcatcgat cagaccgtga ttcaagatgc ctcaggcaag 400

<210> 44
<211> 435
<212> DNA
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<220>
<223> sequence of SP16 with promoter

<400> 44
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acgactccgt tggcc 435

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<220>
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<210> 46
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<220>
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<210> 47
<211> 166
<212> PRT
<213> Artificial

<220>
<223> amino acid sequence of humnan IL18mut-His

<400> 47

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Asn Asp Gln Val Leu Phe Ile Asp Gln Gly Asn Arg Pro Leu Phe Glu
20 25 30

Asp Met Thr Asp Ser Asp Cys Arg Asp Asn Ala Pro Arg Thr Ile Phe
35 40 45

Ile Ile Ser Met Tyr Ala Asp Ser Gln Pro Arg Gly Met Ala Val Thr
50 55 60

Ile Ser Val Lys Cys Glu Lys Ile Ser Thr Leu Ser Cys Glu Asn Lys
65 70 75 80

Ile Ile Ser Phe Lys Glu Met Asn Pro Pro Asp Asn Ile Lys Asp Thr
85 90 95

Lys Ser Asp Ile Ile Phe Phe Gln Arg Ser Val Pro Gly His Asp Asn
100 105 110

Lys Met Gln Phe Glu Ser Ser Ser Tyr Glu Gly Tyr Phe Leu Ala Cys
115 120 125

Glu Lys Glu Arg Asp Leu Phe Lys Leu Ile Leu Lys Lys Glu Asp Glu
130 135 140

Leu Gly Asp Arg Ser Ile Met Phe Thr Val Gln Asn Glu Asp Leu Gln
145 150 155 160

His His His His His His
165

<210> 48
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gcggcggcca tgaagtggct tgacaagcat aatcttgtct gattcgtcta ttttcatacc 240

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ctagtatcat tgatgacaac atggactaag caaaagtgct tgtcccctga cccaagaagg 360

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