

SEQUENCE LISTING

<110> Biotest AG

<120> Agent for Treating Disease

<130> 314790.WO/JND/CJS

<160> 18

<170> PatentIn version 3.3

<210> 1

<211> 124

<212> PRT

<213> Artificial Sequence

<220>

<223> V domain of H chain of humanized antibody hB-F5H37L

<400> 1

Glu Glu Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Phe Ser Asp Cys
 20 25 30

Arg Met Tyr Trp Leu Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
 35 40 45

Gly Val Ile Ser Val Lys Ser Glu Asn Tyr Gly Ala Asn Tyr Ala Glu
 50 55 60

Ser Val Arg Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr
65 70 75 80

Val Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr
 85 90 95

Tyr Cys Ser Ala Ser Tyr Tyr Arg Tyr Asp Val Gly Ala Trp Phe Ala
 100 105 110

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 2

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> V domain of K chain of humanized antibody hB-F5L4M

<400> 2

Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
1 5 10 15

Glu Arg Ala Thr Ile Asn Cys Arg Ala Ser Lys Ser Val Ser Thr Ser
20 25 30

Gly Tyr Ser Tyr Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
35 40 45

Lys Leu Leu Ile Tyr Leu Ala Ser Ile Leu Glu Ser Gly Val Pro Asp
50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser
65 70 75 80

Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln His Ser Arg
85 90 95

Glu Leu Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 3

<211> 550

<212> DNA

<213> Artificial Sequence

<220>

<223> Part of plasmid encoding V domain of H chain of humanized antibody hB-F5

<400> 3

gaggagctcc agacaatgtc tgtctccttc ctcatcttcc tgcccgtgct gggcctccca 60
tggggtcagt gtcagggaga tgccgtattc acagcagcat tcacagactg aggggtgttt 120
cactttgtcg ttctctttg tctccaggtg tctgtcaga ggaacagctt gtggagtctg 180
ggggaggctt ggtgaaaccc ggaggttctc tgaggctctc ctgtgcagcc tcgggtttca 240
gtttcagtga ctgccgatg tactgggttc gccaggctcc aggaagggg ctggagtgga 300
ttggtgtgat ttcagtcaaa tctgagaatt atggagcaaa ttatgcagag tctgtgaggg 360
gcagattcac tattcaaga gatgattcaa aaaacacggt ctatctgcag atgaacagct 420
tgaagaccga agacactgcc gttattatt gtagtgctc ctattatagg tacgacgtgg 480
gggcctggtt tgcttactgg ggccaaggga ctctggtcac tgtctctca ggtaagaatg 540
gccaagcttg 550

<210> 4

<211> 498

<212> DNA

<213> Artificial Sequence

<220>

<223> Part of plasmid encoding V domain of K chain of humanized antibody hB-F5

<400> 4

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ttcaattata tctgagacag cgtgtataag ttatgtata atcattgtcc attctgact 120
acaggtgcct acggggacat cgtgatgacc cagtctccag actccctggc tgtgtctctg 180
ggcgagaggg ccaccatcaa ctgcagggcc agcaaaagtg tcagtacatc tggctacagt 240
tatatatatt ggtaccagca gaaaccagga cagcctcta agctgtcat ttaccttgca 300
tccatcctag aatctggggg cctgaccga ttcagtggca gcgggtctgg gacagatttc 360
actctacca tcagcagcct gcaggctgaa gatgtggcag ttattactg tcagcacagt 420

aggaacttc cgtggacgtt cggccaaggg accaaggtgg aaatcaaacg tgagtagaat 480

ttaaatttta agcttctt 498

<210> 5

<211> 372

<212> DNA

<213> Mus musculus

<400> 5

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tcctgtgtca cctcgggttt cagtttcagt gactgccgga tgtactggct tcgccagcct 120

ccaggaagg ggctggagtg gattggtgtg atttcagtca aatctgagaa ttatggagca 180

aattatgcag agtctgtgag gggcagattc actatttcaa gagatgattc aaaaagcagt 240

gtctatctgc agatgagcag attgagagag gaagacactg ccacttatta ttgtagtgcc 300

tcctattata ggtacgacgt gggggcctgg ttgcttact ggggccaagg gactctggtc 360

actgtctctg ca 372

<210> 6

<211> 383

<212> DNA

<213> Mus musculus

<400> 6

gacattgtgc tgacacagtc tccttcttcc ttagttgtat ctctggggca gagggccacc 60

atctcatgca gggccagcaa aagtgtcagt acatctggct acagttatat atattggtac 120

caacagatcc caggacagcc acccaaactc ctcatctatc ttgcatccat cctagaatct 180

ggggtccctg gcaggttcag tggcagtggg tctgggacag acttcaccct caacatccat 240

cctgtggagg aggaggatgc tgcaacctat tactgtcagc acagtaggga acttccgtgg 300

acgttcggtg gaggcaccaa gctggagatc aaacgggctg atgctgcacc aactgtatcc 360

atcttccac catccagtga gca 383

<210> 7

<211> 124

<212> PRT

<213> Mus musculus

<400> 7

Gln Glu Tyr Leu Val Glu Thr Gly Gly Gly Leu Val Arg Pro Gly Asn
1 5 10 15

Ser Leu Lys Leu Ser Cys Val Thr Ser Gly Phe Ser Phe Ser Asp Cys
20 25 30

Arg Met Tyr Trp Leu Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45

Gly Val Ile Ser Val Lys Ser Glu Asn Tyr Gly Ala Asn Tyr Ala Glu
50 55 60

Ser Val Arg Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Ser Ser
65 70 75 80

Val Tyr Leu Gln Met Ser Arg Leu Arg Glu Glu Asp Thr Ala Thr Tyr
85 90 95

Tyr Cys Ser Ala Ser Tyr Tyr Arg Tyr Asp Val Gly Ala Trp Phe Ala
100 105 110

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ala
115 120

<210> 8

<211> 111

<212> PRT

<213> Mus musculus

<400> 8

Asp Ile Val Leu Thr Gln Ser Pro Ser Ser Leu Val Val Ser Leu Gly
1 5 10 15

Gln Arg Ala Thr Ile Ser Cys Arg Ala Ser Lys Ser Val Ser Thr Ser

20 25 30

Gly Tyr Ser Tyr Ile Tyr Trp Tyr Gln Gln Ile Pro Gly Gln Pro Pro
35 40 45

Lys Leu Leu Ile Tyr Leu Ala Ser Ile Leu Glu Ser Gly Val Pro Gly
50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Asn Ile His
65 70 75 80

Pro Val Glu Glu Glu Asp Ala Ala Thr Tyr Tyr Cys Gln His Ser Arg
85 90 95

Glu Leu Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 9
<211> 23
<212> PRT
<213> Homo sapiens

<400> 9

Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
1 5 10 15

Glu Arg Ala Thr Ile Asn Cys
20

<210> 10
<211> 15
<212> PRT
<213> Homo sapiens

<400> 10

Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr
1 5 10 15

<210> 11
<211> 32
<212> PRT
<213> Homo sapiens

<400> 11

Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15

Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys
20 25 30

<210> 12
<211> 10
<212> PRT
<213> Homo sapiens

<400> 12

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
1 5 10

<210> 13
<211> 30
<212> PRT
<213> Homo sapiens

<400> 13

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
20 25 30

<210> 14
<211> 14
<212> PRT
<213> Homo sapiens

<400> 14

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Gly

1 5 10

<210> 15
<211> 32
<212> PRT
<213> Homo sapiens

<400> 15

Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu Tyr Leu Gln
1 5 10 15

Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Thr Thr
20 25 30

<210> 16
<211> 11
<212> PRT
<213> Homo sapiens

<400> 16

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
1 5 10

<210> 17
<211> 124
<212> PRT
<213> Artificial Sequence

<220>
<223> V domain of the H chain of humanized antibody hB-F5H37V

<400> 17

Glu Glu Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Phe Ser Asp Cys
20 25 30

Arg Met Tyr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45

Gly Val Ile Ser Val Lys Ser Glu Asn Tyr Gly Ala Asn Tyr Ala Glu
50 55 60

Ser Val Arg Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr
65 70 75 80

Val Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr
85 90 95

Tyr Cys Ser Ala Ser Tyr Tyr Arg Tyr Asp Val Gly Ala Trp Phe Ala
100 105 110

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 18

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> V domain of K chain of humanized antibody hB-F5L4L

<400> 18

Asp Ile Val Leu Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
1 5 10 15

Glu Arg Ala Thr Ile Asn Cys Arg Ala Ser Lys Ser Val Ser Thr Ser
20 25 30

Gly Tyr Ser Tyr Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
35 40 45

Lys Leu Leu Ile Tyr Leu Ala Ser Ile Leu Glu Ser Gly Val Pro Asp
50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser

65

70

75

80

Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln His Ser Arg
85 90 95

Glu Leu Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110