SEQUENCE LISTING

<110> Biotest AG

<120> Agent for Treating Disease

<130> 314788.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

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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
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<210> 2
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<223> V domain of K chain of humanized antibody hB-F5L4M

<400> 2

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Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
1               5                  10                  15
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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
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tggggtcagt gtcagggaga tgccgtattc acagcagcat tcacagactg aggggtgttt 120

cactttgctg tttccttttg tctccaggtg tcctgtcaga ggaacagctt gtggagtctg 180

ggggaggctt ggtgaaaccc ggaggttctc tgaggctctc ctgtgcagcc tcgggtttca 240

gtttcagtga ctgccggatg tactgggttc gccaggctcc agggaagggg ctggagtgga 300

ttggtgtgat ttcagtcaaa tctgagaatt atggagcaaa ttatgcagag tctgtgaggg 360

gcagattcac tatttcaaga gatgattcaa aaaacacggt ctatctgcag atgaacagct 420

tgaagaccga agacactgcc gtttattatt gtagtgcctc ctattatagg tacgacgtgg 480

gggcctggtt tgcttactgg ggccaaggga ctctggtcac tgtctcttca ggtaagaatg 540

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<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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acaggtgcct acggggacat cgtgatgacc cagtctccag actccctggc tgtgtctctg 180

ggcgagaggg ccaccatcaa ctgcagggcc agcaaaagtg tcagtacatc tggctacagt 240

tatatatatt ggtaccagca gaaaccagga cagcctccta agctgctcat ttaccttgca 300

tccatcctag aatctggggt ccctgaccga ttcagtggca gcgggtctgg gacagatttc 360

actctcacca tcagcagcct gcaggctgaa gatgtggcag tttattactg tcagcacagt 420

agggaacttc 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

ccagggaagg ggctggagtg gattggtgtg atttcagtca aatctgagaa ttatggagca 180

aattatgcag agtctgtgag gggcagattc actatttcaa gagatgattc aaaaagcagt 240

gtctatctgc agatgagcag attgagagag gaagacactg ccacttatta ttgtagtgcc 300

tcctattata ggtacgacgt gggggcctgg tttgcttact ggggccaagg gactctggtc 360

actgtctctg ca 372

<210> 6
<211> 383
<212> DNA
<213> Mus musculus

<400> 6
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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

atcttcccac 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

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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
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<210> 8
<211> 111
<212> PRT
<213> Mus musculus

<400> 8

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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
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<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
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<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

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Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Gly
1               5                   10
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<210> 15
<211> 32
<212> PRT
<213> Homo sapiens

<400> 15

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

<400> 16

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Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
1               5                   10
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<210> 17
<211> 124
<212> PRT
<213> Artificial Sequence

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

<400> 17

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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
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