2-2 Amended sequence list under PCT A28 or 41

SEQUENCE LISTING

<110> Protein Design Lab, Ltd.

<120> A novel polypeptide against tumor caused by EB virus and use and preparation method thereof.

<130> PC09622/JJQ

<160> 32

<170> PatentIn version 3.3

<210> 1
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<223> oligonucleotide primer 5¡¯-3¡¯designed for mutation of G11A in gene of colicin

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<210> 2
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<220>
<223> oligonucleotide primer 3¡¯-5¡¯ designed for mutation of G11A in gene of colicin

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<212> DNA
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<220>
<223> oligonucleotide primer 5¡¯-3¡¯ designed for mutation of H22G in gene of colicin

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<210> 4
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<220>
<223> oligonucleotide primer 3¡¯-5¡¯ designed for mutation of H22G in gene of colicin

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<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> oligonucleotide primer 5¡¯-3¡¯ designed for mutation of A26G in gene of colicin

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gaaattatgg gtgttgatat ttat 24

<210> 6
<211> 24
<212> DNA
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<220>
<223> oligonucleotide primer 3¡¯-5¡¯ designed for mutation of A26G in gene of colicin

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ataaatatac aacacccata atttc 25

<210> 7
<211> 30
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<220>
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<220>
<223> oligonucleotide primer 3¡¯-5¡¯ designed for mutation of V31L in gene of colicin

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gacacgtgga gggttgagat aaatatcaac 30

<210> 9
<211> 34
<212> DNA
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<220>
<223> oligonucleotide primer 5¡¯-3¡¯ designed for mutation of H40D in gene of colicin

<400> 9

cgtgtcgatg tctttgatgg taccccgcct gcat 34

<210> 10
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<212> DNA
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<220>
<223> oligonucleotide primer 3¡¯-5¡¯ designed for mutation of H40D in gene of colicin

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<210> 11
<211> 69
<212> DNA
<213> Artificial Sequence

<220>
<223> primer 5¡¯-3¡¯ for gene of VHCDR1 in recombination plasmid pCHCEB11

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gcgaataagt tctggggtat ttccttcggt atgcattggg tgcgtcagta ataaaaatat 60

aagacaggc 69

<210> 12
<211> 69
<212> DNA
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<220>
<223> primer 3¡¯-5¡¯ for gene of VHCDR1 in recombination plasmid pCHCEB11

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cttattcgc 69

<210> 13
<211> 72
<212> DNA
<213> Artificial Sequence

<220>
<223> primer 5¡¯-3¡¯ for gene of VHFR2 in recombination plasmid pCHCEB11

<400> 13
ggtatgcatt gggtgcgtca ggcccccgag aaaggtctgg agtgggtggc ctaaataaaa 60

tataagacag gc 72

<210> 14
<211> 73
<212> DNA
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<220>
<223> primer 3¡¯-5¡¯ for gene of VHFR2 in recombination plasmid pCHCEB11

<400> 14
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cccaatgcat acc 73

<210> 15
<211> 69
<212> DNA
<213> Artificial Sequence

<220>
<223> primer 5¡¯-3¡¯ for gene of (Rev)VlCDR3 in recombination plasmid pCHCEB11

<400> 15
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aagacaggc 69

<210> 16
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> primer 3¡¯-5¡¯for gene of (Rev)VLCDR3 in recombination plasmid pCHCEB11

<400> 16
gcctgtctta tattttattt aaccctgacc gtaggagtag ggggtggcca cccactccag 60

accttt 66

<210> 17
<211> 69
<212> DNA
<213> Artificial Sequence

<220>
<223> primer 5¡¯-3¡¯ for gene of VHCDR1 in recombination plasmid pCHCEB22

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aagacaggc 69

<210> 18
<211> 69
<212> DNA
<213> Artificial Sequence

<220>
<223> primer 3¡¯-5¡¯ for gene of VHCDR1 in recombination plasmid pCHCEB22

<400> 18
gcctgtctta tattttattt actgacgcac ccaatgcata ccgaaggaaa taccccagaa 60

cttattcgc 69

<210> 19
<211> 72
<212> DNA
<213> Artificial Sequence

<220>
<223> primer 5¡¯-3¡¯ for gene of VHFR2 in recombination plasmid pCHCEB22

<400> 19
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tataagacag gc 72

<210> 20
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<223> primer 3¡¯-5¡¯ for gene of VHFR2 in recombination plasmid pCHCEB22

<400> 20
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cccaatgcat acc 73

<210> 21
<211> 69
<212> DNA
<213> Artificial Sequence

<220>
<223> primer 5¡¯-3¡¯ for gene of VLCDR3 in recombination plasmid pCHCEB22

<400> 21
aaaggtctgg agtgggtggc cggtcagggt tactcctacc cctacaccta aataaaatat 60

aagacaggc 69

<210> 22
<211> 69
<212> DNA
<213> Artificial Sequence

<220>
<223> primer 3¡¯-5¡¯ for gene of VLCDR3 in recombination plasmid pCHCEB22

<400> 22
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cagaccttt 69

<210> 23
<211> 1878
<212> DNA
<213> Artificial Sequence

<220>
<223> The gene encoding the mutant polypeptide of colicin Ia

<400> 23

atgtctgacc ctgtacgtat tacaaatccc gcagcagaat cgctggggta tgattcagat 60

ggcggtgaaa ttatgggtgt tgatatttat ctcaaccctc cacgtgtcga tgtctttgat 120

ggtaccccgc ctgcatggag ttccttcggg aacaaaacca tctggggcgg aaacgagtgg 180

gttgatgatt ccccaacccg aagtgatatc gaaaaaaggg acaaggaaat cacagcgtac 240

aaaaacacgc tcagcgcgca gcagaaagag aatgagaata agcgtactga agccggaaaa 300

cgcctctctg cggcgattgc tgcaagggaa aaagatgaaa acacactgaa aacactccgt 360

gccggaaacg cagatgccgc tgatattaca cgacaggagt tcagactcct gcaggcagag 420

ctgagagaat acggattccg tactgaaatc gccggatatg acgccctccg gctgcataca 480

gagagccgga tgctgtttgc tgatgctgat tctcttcgta tatctccccg ggaggccagg 540

tcgttaatcg aacaggctga aaaacggcag aaggatgcgc agaacgcaga caagaaggcc 600

gctgatatgc ttgctgaata cgagcgcaga aaaggtattc tggacacccg gttgtcagag 660

ctggaaaaaa atggcggggc agcccttgcc gttcttgatg cacaacaggc ccgtctgctc 720

gggcagcaga cacggaatga cagggccatt tcagaggccc ggaataaact cagttcagtg 780

acggaatcgc ttaacacggc ccgtaatgca ttaaccagag ctgaacaaca gctgacgcaa 840

cagaaaaaca cgcctgacgg caaaacgata gtttcccctg aaaaattccc ggggcgttca 900

tcaacaaatc attctattgt tgtgagcggt gatccgagat ttgccggtac gataaaaatc 960

acaaccagcg cagtcatcga taaccgtgca aacctgaatt atcttctgag ccattccggt 1020

ctggactata aacgcaatat tctgaatgac cggaatccgg tggtgacaga ggatgtggaa 1080

ggtgacaaga aaatttataa tgctgaagtt gctgaatggg ataagttacg gcaaagattg 1140

cttgatgcca gaaataaaat cacctctgct gaatctgcgg taaattcggc gagaaataac 1200

ctcagtgcca gaacaaatga gcaaaagcat gcaaatgacg ctcttaatgc cctgttgaag 1260

gaaaaagaga atatacgtaa ccagctttcc ggcatcaatc agaagatagc ggaagagaaa 1320

agaaaacagg atgaactgaa ggcaacgaaa gacgcaatta atttcacaac agagttcctg 1380

aaatcagttt cagaaaaata tggtgcaaaa gctgagcagt tagccagaga gatggccggg 1440

caggctaaag ggaagaaaat acgtaatgtt gaagaggcat taaaaacgta tgaaaagtac 1500

cgggctgaca ttaacaaaaa aattaatgca aaagatcgtg cagcgattgc cgcagccctt 1560

gagtctgtga agctgtctga tatatcgtct aatctgaaca gattcagtcg gggactggga 1620

tatgcaggaa aatttacaag tcttgctgac tggatcactg agtttggtaa ggctgtccgg 1680

acagagaact ggcgtcctct ttttgttaaa acagaaacca tcatagcagg caatgccgca 1740

acggctcttg tggcactggt cttcagtatt cttaccggaa gcgctttagg cattatcggg 1800

tatggtttac tgatggctgt caccggtgcg ctgattgatg aatcgcttgt ggaaaaagcg 1860

aataagttct ggggtatt 1878

<210> 24
<211> 625
<212> PRT
<213> Artificial Sequence

<220>
<223> The amino acid sequence of the mutant polypeptide of colicin Ia

<400> 24
Ser Asp Pro Val Arg Ile Thr Asn Pro Ala Ala Glu Ser Leu Gly Tyr
Asp Ser Asp Gly Gly Glu Ile Met Gly Val Asp Ile Tyr Leu Asn Pro
Pro Arg Val Asp Val Phe Asp Gly Thr Pro Pro Ala Trp Ser Ser Phe
Gly Asn Lys Thr Ile Trp Gly Gly Asn Glu Trp Val Asp Asp Ser Pro
Thr Arg Ser Asp Ile Glu Lys Arg Asp Lys Glu Ile Thr Ala Tyr Lys
Asn Thr Leu Ser Ala Gln Gln Lys Glu Asn Glu Asn Lys Arg Thr Glu
Ala Gly Lys Arg Leu Ser Ala Ala Ile Ala Ala Arg Glu Lys Asp Glu
Asn Thr Leu Lys Thr Leu Arg Ala Gly Asn Ala Asp Ala Ala Asp Ile
Thr Arg Gln Glu Phe Arg Leu Leu Gln Ala Glu Leu Arg Glu Tyr Gly
Phe Arg Thr Glu Ile Ala Gly Tyr Asp Ala Leu Arg Leu His Thr Glu
Ser Arg Met Leu Phe Ala Asp Ala Asp Ser Leu Arg Ile Ser Pro Arg
Glu Ala Arg Ser Leu Ile Glu Gln Ala Glu Lys Arg Gln Lys Asp Ala
Gln Asn Ala Asp Lys Lys Ala Ala Asp Met Leu Ala Glu Tyr Glu Arg
Arg Lys Gly Ile Leu Asp Thr Arg Leu Ser Glu Leu Glu Lys Asn Gly
Gly Ala Ala Leu Ala Val Leu Asp Ala Gln Gln Ala Arg Leu Leu Gly
Gln Gln Thr Arg Asn Asp Arg Ala Ile Ser Glu Ala Arg Asn Lys Leu
Ser Ser Val Thr Glu Ser Leu Asn Thr Ala Arg Asn Ala Leu Thr Arg
Ala Glu Gln Gln Leu Thr Gln Gln Lys Asn Thr Pro Asp Gly Lys Thr
Ile Val Ser Pro Glu Lys Phe Pro Gly Arg Ser Ser Thr Asn His Ser
Ile Val Val Ser Gly Asp Pro Arg Phe Ala Gly Thr Ile Lys Ile Thr
Thr Ser Ala Val Ile Asp Asn Arg Ala Asn Leu Asn Tyr Leu Leu Ser
His Ser Gly Leu Asp Tyr Lys Arg Asn Ile Leu Asn Asp Arg Asn Pro
Val Val Thr Glu Asp Val Glu Gly Asp Lys Lys Ile Tyr Asn Ala Glu
Val Ala Glu Trp Asp Lys Leu Arg Gln Arg Leu Leu Asp Ala Arg Asn
Lys Ile Thr Ser Ala Glu Ser Ala Val Asn Ser Ala Arg Asn Asn Leu
Ser Ala Arg Thr Asn Glu Gln Lys His Ala Asn Asp Ala Leu Asn Ala
Leu Leu Lys Glu Lys Glu Asn Ile Arg Asn Gln Leu Ser Gly Ile Asn
Gln Lys Ile Ala Glu Glu Lys Arg Lys Gln Asp Glu Leu Lys Ala Thr
Lys Asp Ala Ile Asn Phe Thr Thr Glu Phe Leu Lys Ser Val Ser Glu
Lys Tyr Gly Ala Lys Ala Glu Gln Leu Ala Arg Glu Met Ala Gly Gln
Ala Lys Gly Lys Lys Ile Arg Asn Val Glu Glu Ala Leu Lys Thr Tyr
Glu Lys Tyr Arg Ala Asp Ile Asn Lys Lys Ile Asn Ala Lys Asp Arg
Ala Ala Ile Ala Ala Ala Leu Glu Ser Val Lys Leu Ser Asp Ile Ser
Ser Asn Leu Asn Arg Phe Ser Arg Gly Leu Gly Tyr Ala Gly Lys Phe
Thr Ser Leu Ala Asp Trp Ile Thr Glu Phe Gly Lys Ala Val Arg Thr
Glu Asn Trp Arg Pro Leu Phe Val Lys Thr Glu Thr Ile Ile Ala Gly
Asn Ala Ala Thr Ala Leu Val Ala Leu Val Phe Ser Ile Leu Thr Gly
Ser Ala Leu Gly Ile Ile Gly Tyr Gly Leu Leu Met Ala Val Thr Gly
Ala Leu Ile Asp Glu Ser Leu Val Glu Lys Ala Asn Lys Phe Trp Gly
Ile

<210> 25
<211> 28
<212> PRT
<213> Artificial Sequence

<220>

<223> The amino acid sequence of the mimetic antibody VHCDR1- VHFR2-VLCDR3

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Ser Phe Gly Met His Trp Val Arg Gln Ala Pro Glu Lys Gly Leu Glu Trp Val Ala
Gly Gln Gly Tyr Ser Tyr Pro Tyr Thr

<210> 26
<211> 84
<212> DNA
<213> Artificial Sequence

<220>
<223> The nucleotide sequence encoding the mimetic antibody VHCDR1- VHFR2-VLCDR3

<400> 26
tccttcggta tgcattgggt gcgtcaggcc cccgagaaag gtctggagtg ggtggccggt 60

cagggttact cctaccccta cacc 84

<210> 27
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> The amino acid sequence of the mimetic antibody VHCDR1- VHFR2-£¨Rev£©VLCDR3

<400> 27
Ser Phe Gly Met His Trp Val Arg Gln Ala Pro Glu Lys Gly Leu Glu Trp Val Ala
Thr Tyr Pro Tyr Ser Tyr Gly Gln Gly

<210> 28
<211> 84
<212> DNA
<213> Artificial Sequence

<220>
<223> The nucleotide sequence encoding the mimetic antibody VHCDR1- VHFR2-(Rev)VLCDR3

<400> 28
tccttcggta tgcattgggt gcgtcaggcc cccgagaaag gtctggagtg ggtggccacc 60

taccctact cctacggtca gggt 84

<210> 29
<211> 653
<212> PRT
<213> Artificial Sequence

<220>
<223> The amino acid sequence 1 of the polypeptide against tumor caused by EB virus

<400> 29
Ser Asp Pro Val Arg Ile Thr Asn Pro Ala Ala Glu Ser Leu Gly Tyr
Asp Ser Asp Gly Gly Glu Ile Met Gly Val Asp Ile Tyr Leu Asn Pro
Pro Arg Val Asp Val Phe Asp Gly Thr Pro Pro Ala Trp Ser Ser Phe
Gly Asn Lys Thr Ile Trp Gly Gly Asn Glu Trp Val Asp Asp Ser Pro
Thr Arg Ser Asp Ile Glu Lys Arg Asp Lys Glu Ile Thr Ala Tyr Lys
Asn Thr Leu Ser Ala Gln Gln Lys Glu Asn Glu Asn Lys Arg Thr Glu

Ala Gly Lys Arg Leu Ser Ala Ala Ile Ala Ala Arg Glu Lys Asp Glu
Asn Thr Leu Lys Thr Leu Arg Ala Gly Asn Ala Asp Ala Ala Asp Ile
Thr Arg Gln Glu Phe Arg Leu Leu Gln Ala Glu Leu Arg Glu Tyr Gly
Phe Arg Thr Glu Ile Ala Gly Tyr Asp Ala Leu Arg Leu His Thr Glu
Ser Arg Met Leu Phe Ala Asp Ala Asp Ser Leu Arg Ile Ser Pro Arg
Glu Ala Arg Ser Leu Ile Glu Gln Ala Glu Lys Arg Gln Lys Asp Ala
Gln Asn Ala Asp Lys Lys Ala Ala Asp Met Leu Ala Glu Tyr Glu Arg
Arg Lys Gly Ile Leu Asp Thr Arg Leu Ser Glu Leu Glu Lys Asn Gly
Gly Ala Ala Leu Ala Val Leu Asp Ala Gln Gln Ala Arg Leu Leu Gly
Gln Gln Thr Arg Asn Asp Arg Ala Ile Ser Glu Ala Arg Asn Lys Leu
Ser Ser Val Thr Glu Ser Leu Asn Thr Ala Arg Asn Ala Leu Thr Arg
Ala Glu Gln Gln Leu Thr Gln Gln Lys Asn Thr Pro Asp Gly Lys Thr
Ile Val Ser Pro Glu Lys Phe Pro Gly Arg Ser Ser Thr Asn His Ser
Ile Val Val Ser Gly Asp Pro Arg Phe Ala Gly Thr Ile Lys Ile Thr
Thr Ser Ala Val Ile Asp Asn Arg Ala Asn Leu Asn Tyr Leu Leu Ser
His Ser Gly Leu Asp Tyr Lys Arg Asn Ile Leu Asn Asp Arg Asn Pro
Val Val Thr Glu Asp Val Glu Gly Asp Lys Lys Ile Tyr Asn Ala Glu
Val Ala Glu Trp Asp Lys Leu Arg Gln Arg Leu Leu Asp Ala Arg Asn
Lys Ile Thr Ser Ala Glu Ser Ala Val Asn Ser Ala Arg Asn Asn Leu
Ser Ala Arg Thr Asn Glu Gln Lys His Ala Asn Asp Ala Leu Asn Ala
Leu Leu Lys Glu Lys Glu Asn Ile Arg Asn Gln Leu Ser Gly Ile Asn
Gln Lys Ile Ala Glu Glu Lys Arg Lys Gln Asp Glu Leu Lys Ala Thr
Lys Asp Ala Ile Asn Phe Thr Thr Glu Phe Leu Lys Ser Val Ser Glu
Lys Tyr Gly Ala Lys Ala Glu Gln Leu Ala Arg Glu Met Ala Gly Gln
Ala Lys Gly Lys Lys Ile Arg Asn Val Glu Glu Ala Leu Lys Thr Tyr
Glu Lys Tyr Arg Ala Asp Ile Asn Lys Lys Ile Asn Ala Lys Asp Arg
Ala Ala Ile Ala Ala Ala Leu Glu Ser Val Lys Leu Ser Asp Ile Ser
Ser Asn Leu Asn Arg Phe Ser Arg Gly Leu Gly Tyr Ala Gly Lys Phe
Thr Ser Leu Ala Asp Trp Ile Thr Glu Phe Gly Lys Ala Val Arg Thr
Glu Asn Trp Arg Pro Leu Phe Val Lys Thr Glu Thr Ile Ile Ala Gly
Asn Ala Ala Thr Ala Leu Val Ala Leu Val Phe Ser Ile Leu Thr Gly
Ser Ala Leu Gly Ile Ile Gly Tyr Gly Leu Leu Met Ala Val Thr Gly
Ala Leu Ile Asp Glu Ser Leu Val Glu Lys Ala Asn Lys Phe Trp Gly
Ile Ser Phe Gly Met His Trp Val Arg Gln Ala Pro Glu Lys Gly Leu
Glu Trp Val Ala Gly Gln Gly Tyr Ser Tyr Pro Tyr Thr

<210> 30
<211> 1962
<212> DNA
<213> Artificial Sequence

<220>
<223> The nucleotide sequence encoding the amino acid sequence 1 of the polypeptide against tumor caused by EB virus

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ggcggtgaaa ttatgggtgt tgatatttat ctcaaccctc cacgtgtcga tgtctttgat 120

ggtaccccgc ctgcatggag ttccttcggg aacaaaacca tctggggcgg aaacgagtgg 180

gttgatgatt ccccaacccg aagtgatatc gaaaaaaggg acaaggaaat cacagcgtac 240

aaaaacacgc tcagcgcgca gcagaaagag aatgagaata agcgtactga agccggaaaa 300

cgcctctctg cggcgattgc tgcaagggaa aaagatgaaa acacactgaa aacactccgt 360

gccggaaacg cagatgccgc tgatattaca cgacaggagt tcagactcct gcaggcagag 420

ctgagagaat acggattccg tactgaaatc gccggatatg acgccctccg gctgcataca 480

gagagccgga tgctgtttgc tgatgctgat tctcttcgta tatctccccg ggaggccagg 540

tcgttaatcg aacaggctga aaaacggcag aaggatgcgc agaacgcaga caagaaggcc 600

gctgatatgc ttgctgaata cgagcgcaga aaaggtattc tggacacccg gttgtcagag 660

ctggaaaaaa atggcggggc agcccttgcc gttcttgatg cacaacaggc ccgtctgctc 720

gggcagcaga cacggaatga cagggccatt tcagaggccc ggaataaact cagttcagtg 780

acggaatcgc ttaacacggc ccgtaatgca ttaaccagag ctgaacaaca gctgacgcaa 840

cagaaaaaca cgcctgacgg caaaacgata gtttcccctg aaaaattccc ggggcgttca 900

tcaacaaatc attctattgt tgtgagcggt gatccgagat ttgccggtac gataaaaatc 960

acaaccagcg cagtcatcga taaccgtgca aacctgaatt atcttctgag ccattccggt 1020

ctggactata aacgcaatat tctgaatgac cggaatccgg tggtgacaga ggatgtggaa 1080

ggtgacaaga aaatttataa tgctgaagtt gctgaatggg ataagttacg gcaaagattg 1140

cttgatgcca gaaataaaat cacctctgct gaatctgcgg taaattcggc gagaaataac 1200

ctcagtgcca gaacaaatga gcaaaagcat gcaaatgacg ctcttaatgc cctgttgaag 1260

gaaaaagaga atatacgtaa ccagctttcc ggcatcaatc agaagatagc ggaagagaaa 1320

agaaaacagg atgaactgaa ggcaacgaaa gacgcaatta atttcacaac agagttcctg 1380

aaatcagttt cagaaaaata tggtgcaaaa gctgagcagt tagccagaga gatggccggg 1440

caggctaaag ggaagaaaat acgtaatgtt gaagaggcat taaaaacgta tgaaaagtac 1500

cgggctgaca ttaacaaaaa aattaatgca aaagatcgtg cagcgattgc cgcagccctt 1560

gagtctgtga agctgtctga tatatcgtct aatctgaaca gattcagtcg gggactggga 1620

tatgcaggaa aatttacaag tcttgctgac tggatcactg agtttggtaa ggctgtccgg 1680

acagagaact ggcgtcctct ttttgttaaa acagaaacca tcatagcagg caatgccgca 1740

acggctcttg tggcactggt cttcagtatt cttaccggaa gcgctttagg cattatcggg 1800

tatggtttac tgatggctgt caccggtgcg ctgattgatg aatcgcttgt ggaaaaagcg 1860

aataagttct ggggtatttc cttcggtatg cattgggtgc gtcaggcccc cgagaaaggt 1920

ctggagtggg tggccggtca gggttactcc tacccctaca cc 1962

<210> 31
<211> 653
<212> PRT
<213> Artificial Sequence

<220>
<223> The amino acid sequence 2 of the novel polypeptide against tumor caused by EB virus

<400> 31
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Asp Ser Asp Gly Gly Glu Ile Met Gly Val Asp Ile Tyr Leu Asn Pro

Pro Arg Val Asp Val Phe Asp Gly Thr Pro Pro Ala Trp Ser Ser Phe
Gly Asn Lys Thr Ile Trp Gly Gly Asn Glu Trp Val Asp Asp Ser Pro
Thr Arg Ser Asp Ile Glu Lys Arg Asp Lys Glu Ile Thr Ala Tyr Lys
Asn Thr Leu Ser Ala Gln Gln Lys Glu Asn Glu Asn Lys Arg Thr Glu
Ala Gly Lys Arg Leu Ser Ala Ala Ile Ala Ala Arg Glu Lys Asp Glu
Asn Thr Leu Lys Thr Leu Arg Ala Gly Asn Ala Asp Ala Ala Asp Ile
Thr Arg Gln Glu Phe Arg Leu Leu Gln Ala Glu Leu Arg Glu Tyr Gly
Phe Arg Thr Glu Ile Ala Gly Tyr Asp Ala Leu Arg Leu His Thr Glu
Ser Arg Met Leu Phe Ala Asp Ala Asp Ser Leu Arg Ile Ser Pro Arg
Glu Ala Arg Ser Leu Ile Glu Gln Ala Glu Lys Arg Gln Lys Asp Ala
Gln Asn Ala Asp Lys Lys Ala Ala Asp Met Leu Ala Glu Tyr Glu Arg
Arg Lys Gly Ile Leu Asp Thr Arg Leu Ser Glu Leu Glu Lys Asn Gly
Gly Ala Ala Leu Ala Val Leu Asp Ala Gln Gln Ala Arg Leu Leu Gly
Gln Gln Thr Arg Asn Asp Arg Ala Ile Ser Glu Ala Arg Asn Lys Leu
Ser Ser Val Thr Glu Ser Leu Asn Thr Ala Arg Asn Ala Leu Thr Arg
Ala Glu Gln Gln Leu Thr Gln Gln Lys Asn Thr Pro Asp Gly Lys Thr
Ile Val Ser Pro Glu Lys Phe Pro Gly Arg Ser Ser Thr Asn His Ser
Ile Val Val Ser Gly Asp Pro Arg Phe Ala Gly Thr Ile Lys Ile Thr
Thr Ser Ala Val Ile Asp Asn Arg Ala Asn Leu Asn Tyr Leu Leu Ser
His Ser Gly Leu Asp Tyr Lys Arg Asn Ile Leu Asn Asp Arg Asn Pro
Val Val Thr Glu Asp Val Glu Gly Asp Lys Lys Ile Tyr Asn Ala Glu
Val Ala Glu Trp Asp Lys Leu Arg Gln Arg Leu Leu Asp Ala Arg Asn
Lys Ile Thr Ser Ala Glu Ser Ala Val Asn Ser Ala Arg Asn Asn Leu
Ser Ala Arg Thr Asn Glu Gln Lys His Ala Asn Asp Ala Leu Asn Ala
Leu Leu Lys Glu Lys Glu Asn Ile Arg Asn Gln Leu Ser Gly Ile Asn
Gln Lys Ile Ala Glu Glu Lys Arg Lys Gln Asp Glu Leu Lys Ala Thr
Lys Asp Ala Ile Asn Phe Thr Thr Glu Phe Leu Lys Ser Val Ser Glu
Lys Tyr Gly Ala Lys Ala Glu Gln Leu Ala Arg Glu Met Ala Gly Gln
Ala Lys Gly Lys Lys Ile Arg Asn Val Glu Glu Ala Leu Lys Thr Tyr
Glu Lys Tyr Arg Ala Asp Ile Asn Lys Lys Ile Asn Ala Lys Asp Arg
Ala Ala Ile Ala Ala Ala Leu Glu Ser Val Lys Leu Ser Asp Ile Ser
Ser Asn Leu Asn Arg Phe Ser Arg Gly Leu Gly Tyr Ala Gly Lys Phe
Thr Ser Leu Ala Asp Trp Ile Thr Glu Phe Gly Lys Ala Val Arg Thr
Glu Asn Trp Arg Pro Leu Phe Val Lys Thr Glu Thr Ile Ile Ala Gly
Asn Ala Ala Thr Ala Leu Val Ala Leu Val Phe Ser Ile Leu Thr Gly
Ser Ala Leu Gly Ile Ile Gly Tyr Gly Leu Leu Met Ala Val Thr Gly
Ala Leu Ile Asp Glu Ser Leu Val Glu Lys Ala Asn Lys Phe Trp Gly
Ile Ser Phe Gly Met His Trp Val Arg Gln Ala Pro Glu Lys Gly Leu
Glu Trp Val Ala Thr Tyr Pro Tyr Ser Tyr Gly Gln Gly

<210> 32
<211> 1962
<212> DNA
<213> Artificial Sequence

<220>
<223> The nucleotide sequence encoding the amino acid sequence 2 of the novel polypeptide against tumor caused by EB virus

<400> 32
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ggcggtgaaa ttatgggtgt tgatatttat ctcaaccctc cacgtgtcga tgtctttgat 120

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