

Sequence Listing Information:

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Software Name: WIPO Sequence

Software Version: 2.0.0

Production Date: 2022-07-22

General Information:

Current application / Applicant file reference: ZZLJSU220038US-PCT

Earliest priority application / IP Office: CN

Earliest priority application / Application number: CN202110520499.9

Earliest priority application / Filing date: 2021-05-13

Applicant name: JIANGSU TRAUTEC MEDICAL TECHNOLOGY CO., LTD.

Applicant name / Language: en

Invention title: RECOMBINANT HUMAN TYPE XVII COLLAGEN, AND PREPARATION METHOD AND USE THEREOF (en)

Sequence Total Quantity: 10

Sequences:

Sequence Number (ID): 1

Length: 1497

Molecule Type: AA

Features Location/Qualifiers:

- source, 1..1497

> mol_type, protein

> organism, Homo sapiens

Residues:

MDVTKKNKRD GTEVTERIVT ETVTTRLTSL PPKGGSNGY AKTASLGGS RLEKQSLTHG 60
SSGYINSTGS TRGHASTSSY RRAHSPASTL PNSPGSTFER KTHVTRHAYE GSSSGNSSPE 120
YPRKEFASSS TRGRSQTRRES EIRVRLQSAS PSTRWTELDD VKRLLKGSRS ASVSPTRNSS 180
NTLPIPKKGT VETKIVTASS QSVSGTYDAT ILNANLPSHV WSSTLPAGSS MGTYHNNMTT 240
QSSSLNNTNA YSAGSVFGVP NNMASCSTPL HPGLSTSSSV FGMQNNLAPS LTTLSHGTTT 300
TSTAYGVKKK MPQSPAAVNT GVSTSAACTT SVQSDDLLHK DCKFLILEKD NTPAKKEMEL 360

LIMTKDSGKV FTASPASIAA TSFSEDTLKK EKQAAYNADS GLKAEANGDL KTVSTKGKTT 420
 TADIHSYGSS GGGGSGGGGG VGGAGGGPWG PAPAWCPCGS CCSWWKWLLG LLLTWLLLLG
 480
 LLFGLIALAE EVRKLKARVD ELERIRRSIL PYGDSMDRIE KDRLQGMAPA AGADLDKIGL 540
 HSDSQEELWM FVRKKLMMEQ ENGNLRGSPG PKGDMGSPGP KGDRGFPGTP GIPGPLGHPG
 600
 PQGPKGQKGS VGDPGMEGPM GQRGREGPMG PRGEAGPPGS GEKGERGAAG EPGPHGPPGV
 660
 PGSVGPKGSS GSPGPQGPPG PVGLQGLRGE VGLPGVKGDG GPMGPPGPKG DQGEKGPRGL
 720
 TGEPMRGLP GAVGEPGAKG AMGPAGPDGH QGPRGEQGLT GMPGIRGPPG PSGDPGKPL
 780
 TGPQGPQGLP GTPGRPGIKG EPGAPGKIVT SEGSSMLTVP GPPGPPGAMG PPGPPGAPG 840
 AGPAGLPGHQ EVLNLQGPPG PPGPRGPPG SIPGPPGPRG PPGEGLPGPP GPPGSFLSNS 900
 ETFLSGPPGP PGPPGPKGDQ GPPGPRGHQG EQGLPGFSTS GSSSFGLNLQ GPPGPPGPQG 960
 PKGDKGDPGV PGALGIPSGP SEGGSSSTMY VSGPPGPPGP PGPPGSISSS GQEIQQYISE 1020
 YMQSDSIRSY LSGVQGPPGP PGPPGPVTTI TGETFDYSEL ASHVVSYLRT SGYGVSLFSS 1080
 SISSEDILAV LQRDDVRQYL RQYLMGPRGP PGPPGASGDG SLLSLDYAEL SSRILSYMSS 1140
 SGISIGLPGP PGPPGLPGTS YEELLSLLRG SEFRGIVGPP GPPGPPGIPG NVWSSISVED 1200
 LSSYLHTAGL SFIPGPPGPP GPPGPRGPPG VSGALATYAA ENSDSFRSEL ISYLTSPDVR 1260
 SFIVGPPGPP GPQGPPGDSR LLSTDASHSR GSSSSSHSSS VRRGSSYSSS MSTGGGGAGS 1320
 LGAGGAFGEA AGDRGPYGTG IGPGGGYGAA AEGGMYAGNG GLLGADFAGD LDYNELAVRV
 1380
 SESMQRQGLL QGMAYTVQGP PGQPGPQGP GISKVFSAYS NVTADLMDFF QTYGAIQGPP
 1440
 GQKGEMGTPG PKGDRGPAGP PGHPGPPGPR GHKGEKGDG DQVYAGRRRR RSIAPKP
 1497

Sequence Number (ID): 2

Length: 233

Molecule Type: AA

Features Location/Qualifiers:

- source, 1..233

> mol_type, protein

> note, Recombinant human type XVII collagen 170801

> organism, synthetic construct

Residues:

60 GSPGPKGDMG SPGPKGDRGF PGTPGIPGPL GHPGPQGPKG QKGSVGDPGM EGPGEKGERG
120 AAGEPGPHGP PGVPGSVGPK GSSGSPGPQG PPGPVGLQGL RGEVGLPGVK GDKGPMGPPG
180 PKGDQGEKGP PGPPGPPGPK GDQGPPGPRG HQGEQGLPGF SGPPGPPGPQ GPKGDKGDGP
VPGALGIPGP PGQKGEMGTP GPKGDRGPAG PPGHPGPPGP RGHKGEKGDK GDQ 233

Sequence Number (ID): 3

Length: 466

Molecule Type: AA

Features Location/Qualifiers:

- source, 1..466

> mol_type, protein

> note, Recombinant human type XVII collagen 170802

> organism, synthetic construct

Residues:

60 GSPGPKGDMG SPGPKGDRGF PGTPGIPGPL GHPGPQGPKG QKGSVGDPGM EGPGEKGERG
120 AAGEPGPHGP PGVPGSVGPK GSSGSPGPQG PPGPVGLQGL RGEVGLPGVK GDKGPMGPPG
180 PKGDQGEKGP PGPPGPPGPK GDQGPPGPRG HQGEQGLPGF SGPPGPPGPQ GPKGDKGDGP
240 VPGALGIPGP PGQKGEMGTP GPKGDRGPAG PPGHPGPPGP RGHKGEKGDK GDQGSPGPKG
300 DMGSPGPKGD RGFPGTPGIP GPLGHPGPQG PKGQKGSVGD PGMEGPGEKG ERGAAGEPGP
360 HGPPGVPGSV GPKGSSGSPG PQGPPGPVGL QGLRGEVGLP GVKGDKGPMG PPGPKGDQGE
420 KGPPGPPGPP GPKGDQGPPG PRGHQGEQGL PGFSGPPGPP GPQGPKGDKG DPGVPGALGI

PGPPGQKGEM GTPGPKGDRG PAGPPGHPGP PGPRGHKGEK GDKGDQ 466

Sequence Number (ID): 4

Length: 249

Molecule Type: AA

Features Location/Qualifiers:

- source, 1..249
 - > mol_type, protein
 - > note, Optimized amino acid sequence of 170801
 - > organism, synthetic construct

Residues:

60 YVWSHPQFEK GSPGPKGDMG SPGPKGDRGF PGTPGIPGPL GHPGPQGPKG QKGSVGDPGM
EGPGEKGERG AAGEPGPHGP PGVPGSVGPK GSSGSPGPQG PPGPVGLQGL RGEVGLPGVK 120
180 GDKGPMGPPG PKGDQGEKGP PGPPGPPGPK GDQGPPGPRG HQGEQGLPGF SGPPGPPGPQ
240 GPKGDKGDPG VPGALGIPGP PGQKGEMGTP GPKGDRGPAG PPGHPGPPGP RGHKGEKGDK
GDQHHHHHH 249

Sequence Number (ID): 5

Length: 482

Molecule Type: AA

Features Location/Qualifiers:

- source, 1..482
 - > mol_type, protein
 - > note, Optimized amino acid sequence of 170802
 - > organism, synthetic construct

Residues:

60 YVWSHPQFEK GSPGPKGDMG SPGPKGDRGF PGTPGIPGPL GHPGPQGPKG QKGSVGDPGM
EGPGEKGERG AAGEPGPHGP PGVPGSVGPK GSSGSPGPQG PPGPVGLQGL RGEVGLPGVK 120

180 GDKGPMGPPG PKGDQGEKGP PGPPGPPGPK GDQGPPGPRG HQGEQGLPGF SGPPGPPGPQ
 240 GPKGDKGDPG VPGALGIPGP PGQKGEMGTP GPKGDRGPAG PPGHPGPPGP RGHKGEKGDK
 300 GDQGSPGPKG DMGSPGPKG D RGFPGTGP GPGLGHPGPQG PKGQKGSVGD PGMEGPGEKG
 360 ERGAAGEPGP HGPPGVPGSV GPKGSSGSPG PQGPPGPVGL QGLRGEVGLP GVKGDKGPMG
 420 PPGPKGDQGE KGPPGPPGPP GPKGDQGPPG PRGHQGEQGL PGFSGPPGPP GPQGPKGDKG
 480 DPGVPGALGI PGPPGQKGEM GTPGPKGDRG PAGPPGHPGP PGPRGHKGEK GDKGDQHHHH
 HH 482

Sequence Number (ID): 6

Length: 699

Molecule Type: DNA

Features Location/Qualifiers:

- source, 1..699
- > mol_type, other DNA
- > note, DNA sequence encoding 170801
- > organism, synthetic construct

Residues:

ggttctctg gtcaaaagg tgacatgggt tctccaggtc ctaaaggta cagaggtttt 60
 cctgttactc caggtattcc tgggtccattg ggtcatccag gtcctcaagg tcaaaagggt 120
 caaaagggtt ctgttggtga ccctggtatg gaagggtccag gtgaaaaggg tgaaagaggt 180
 gctgctggtg aacctggtcc acacgggtcca cctggtgttc caggttctgt tggctcctaag 240
 ggttcttctg gttctcctgg tccacaagggt cctcctggtc cagttggttt gcaagggttg 300
 agaggtgaag ttggtttgcc aggtgttaag ggtgacaagg gtccaatggg tcctccaggt 360
 ccaaagggtg accaagggtga aaagggtcca cctggtcctc ctggtccacc tgggtccaaag 420
 ggtgaccaag gtcctccagg tcctagaggt catcaagggt aacaagggtt gcctggtttt 480
 tctggtccac caggtcctcc aggtccacaa ggtcctaaag gtgacaaagg tgaccaggt 540
 gttcctggtg ctttggttat tccaggtcca cctggtcaaa aaggtgaaat ggggtactcca 600

ggcctaagg gtagacagagg tccagctggt ccacctgggc atcctgggcc accaggtcca 660
agaggtcata agggtgaaaa aggtgacaag ggtgaccaa 699

Sequence Number (ID): 7

Length: 1398

Molecule Type: DNA

Features Location/Qualifiers:

- source, 1..1398
- > mol_type, other DNA
- > note, DNA sequence encoding 170802
- > organism, synthetic construct

Residues:

ggttctccag gtcctaaagg tgacatgggt tctccagggt ctaagggtga cagaggtttt 60
ccagggtactc caggtattcc aggtcctttg ggtcatccag gtcctcaagg tcctaaagggt 120
caaaaagggtt ctgttggtga ccctgggtatg gaagggtcctg gtgaaaaagg tgaaagagggt 180
gctgctgggtg aacctgggtcc acacgggtcct ccagggtgttc ctggttctgt tgggtccaaaa 240
ggttcttctg gttctcctgg tccacaagggt cctccagggtc ctgttggttt gcaagggtttg 300
agaggtgaag ttggtttgcc aggtgttaaa ggtgacaaag gtccaatggg tcctccagggt 360
ccaaagggtg accaagggtga aaaagggtcca cctgggtcctc ctggtccacc aggtccaaaa 420
ggtgaccaag gtccacctgg tccaagagggt caccaagggtg aacaagggtt gcctgggtttt 480
tctggtcctc cagggtcctcc tgggtcctcaa ggtccaaagg gtgacaagggt tgaccctggt 540
gttccagggtg ctttgggtat tcctgggtcct ccagggtcaaa aggggtgagat ggggtactcct 600
gggtcctaagg gtagacagagg tccagctggt cctcctgggtc accaggtcc tcctgggtcct 660
agaggtcata aagggtgaaaa aggtgacaag ggtgaccaag gttctccagg tccaaagggt 720
gacatgggtt ctctgggtcc aaaagggtgac agaggtttcc ctggtactcc aggtattcct 780
ggtccattgg gtcaccagggt tccacaagggt ccaaaagggtc aaaaagggtc tgttggtgac 840
ccagggtatgg aagggtccagg tgaaaagggt gaaagagggtg ctgctgggtga accaggtcct 900
catggtccac cagggtgtcc aggttctgtt ggtccaaagg gttcttctgg ttctccagggt 960
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ggtgttaagg gtgacaaagg tcctatgggt cctcctgggtc ctaaagggtga ccaagggtgaa 1080
aagggtccac cagggtcctcc aggtccacct ggtccaaaag gtgaccaagg tccaccagggt 1140

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cctagaggtc atcaaggatga acaagggttg ccagggtttt ctggccacc aggtccacca 1200
ggctctcaag gtcctaagg tgacaaagg gaccagggtg ttctgggtgc ttgggtatt 1260
cctgggtcac ctggtaaaaa gggtgaaatg ggtactcctg gtcctaaagg tgacagaggt 1320
cctgctggtc cacctgggtca tccagggtcca cctgggtcca gaggtcaca aggtgaaaag 1380
ggtgacaagg gtgaccaa
1398

```

Sequence Number (ID): 8

Length: 758

Molecule Type: DNA

Features Location/Qualifiers:

- source, 1..758
- > mol_type, other DNA
- > note, Synthetic DNA sequence
- > organism, synthetic construct

Residues:

```

tacgtatggt ctcattcaca attcagagaag ggttctcctg gtcaaaaagg tgacatgggt 60
tctccagggt ctaaaggatga cagagggttt cctgttactc cagggtattcc tgggtccattg 120
gggtcatccag gtcctcaagg tcaaaaagg caaaagggtt ctgttggtga ccctgggtatg 180
gaagggtccag gtgaaaagg tgaaagaggt gctgctgggt aacctgggtcc acacgggtcca 240
cctgggtgtc caggttctgt tgggtcctaag ggttcttctg gttctcctgg tccacaagggt 300
cctcctgggt cagttgggtt gcaagggttg agagggtgaag ttgggttgcc aggtgttaag 360
gggtgacaagg gtccaatggg tctccagggt ccaaaagggt accaagggtga aaagggtcca 420
cctgggtctc ctgggtccacc tgggtcaaaagg ggtgaccaag gtcctccagg tcctagaggt 480
catcaagggt aacaagggtt gcctgggttt tctgggtcac cagggtctcc aggtccacaa 540
gggtcctaaag tgacaaaagg tgaccagggt gttcctgggt ctttgggtat tccagggtcca 600
cctgggtcaaa aagggtgaaat ggggtactcca ggtcctaagg gtgacagagg tccagctgggt 660
ccacctgggt atcctgggtcc accagggtcca agagggtcata aggggtgaaaa aggtgacaag 720
ggtgaccaac accatcatca ccatcattaa gcggccgc
758

```

Sequence Number (ID): 9

Length: 1457

Molecule Type: DNA

Features Location/Qualifiers:

- source, 1..1457
- > mol_type, other DNA
- > note, Synthetic DNA sequence
- > organism, synthetic construct

Residues:

```
tacgtatggt ctcacctca atttaaaag ggttctccag gtcctaaagg tgacatgggt 60
tctccaggtc ctaagggtga cagaggtttt ccaggctactc caggatttcc aggtcctttg 120
ggtcatccag gtcctcaagg tcctaaaggt caaaaagggt ctgttggtga ccctggtatg 180
gaaggctctg gtgaaaaagg tgaaagaggt gctgctgggt aacctggtcc acacggtcct 240
ccagggtgtc ctggttctgt tgggtcaaaa ggttcttctg gttctcctgg tccacaaggt 300
cctccaggtc ctgttggttt gcaaggtttg agagggaag ttggtttgcc aggtgttaaa 360
ggtgacaaag gtccaatggg tcctccagggt ccaaagggtg accaagggtga aaaagggtcca 420
cctggtcctc ctggtccacc aggtccaaaa ggtgaccaag gtccacctgg tccaagaggt 480
caccaagggt aacaagggtt gcctgggttt tctggtcctc caggctctcc tggctcctaa 540
ggtccaaagg gtgacaaggg tgacctggt gttccagggt cttgggtat tcctggtcct 600
ccagggtcaa agggtagat ggggtactct ggtcctaagg gtgacagagg tccagctggt 660
cctcctggtc acccagggtc tcctggtcct agaggcata aagggtaaaa aggtgacaag 720
ggtgaccaag gttctccagg tccaaagggt gacatgggtt ctctggtcc aaaagggtgac 780
agaggtttcc ctggtactcc aggtattcct ggtccattgg gtcaccagg tccacaaggt 840
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gaaagagggt ctgctggtga accaggctct catggtccac cagggttcc aggttctgtt 960
ggtccaaagg gttcttctgg ttctccagggt ccacaagggt ctccagggtc agttggtttg 1020
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ggtactcctg gtcctaaagg tgacagaggt cctgctggtc cacctggtca tccagggtcca 1380
cctggtccaa gaggtcacaag aggtgaaaag ggtgacaagg gtgaccaaca ccatcaccat 1440
```

catcattaag cggccgc

1457

Sequence Number (ID): 10

Length: 4550

Molecule Type: DNA

Features Location/Qualifiers:

- source, 1..4550
- > mol_type, other DNA
- > note, Synthetic DNA sequence
- > organism, synthetic construct

Residues:

gaattctgga gtcaccta attcgaaaa atggatgtca ctaaaaagaa caagagagac 60
ggaactgagg tctactgagag aatcggtacc gaaactgtca ccacaagact tacttcatta 120
cctccaaagg gtggaacttc taatgggtac gcaaagacag catcattagg aggtgggtca 180
agacttgaga aacaatccct tactcatggt tcaagtggat acataaattc aactgggtca 240
acaagaggac atgcaagtac ttcttcttat agaagagcac atagtccagc atcaactttg 300
cccaactctc ctggttcaac attgagaga aaaactcatg taaccagaca tgcctatgag 360
ggttctagtt ctggtaatc atctccagaa taccctagaa aagagtttg atcatcctca 420
actagaggta gatcacagac tagagaatct gaaatcagag tcagattaca atcagcatct 480
ccttcaacta gatggactga gttagacgac gtgaaaagat tattaaggg atcaagaagt 540
gcaagtgttt cccctacaag aaattcttc aacaccctc ccattcctaa gaaaggaacc 600
gttgaaacta aaatcggtac agcatcatct cagtctgtat ccggaaccta cgacgctacc 660
attctggacg ccaacttacc ttctcatgtc tggcttcaa ctttaccgc aggttcctca 720
atgggaactt accacaataa catgactact caatcaagtt ctcttctgaa taccaatgca 780
tactagccg gttccgtttt tggagtcct aacaatatg cctctgctc cccaactctt 840
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gaaaaacaag ccgcatacaa cgagactca ggtttaaaag cagaagcaaa cggtgacctt 1260
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 ggacctctg gatcatttct gtctaattct gagacattc ttcaggacc tctggtcct 2760
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ggtaagaaa ttacagcagta ttttctgag tacatgcaat ctgactctat tagaagttat 3120
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 ctgcagagag atgatgtaag acagtacctt agacaatact tgatgggtcc aagaggacca 3360
 ccaggtccac ccggtgcatc aggagacgga tcattattat ctttgatta cgctgaatta 3420
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 gtatccggtg ctttagaac ttatgcagca gaaaactccg attcttttag atcagaattg 3780
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 ggttcaagtt cttcttctca ctctcttct gtagaagag gatcatcata ttcatcaagt 3960
 atgtcaactg gtggaggagg agctggttca ttgggtgccg gaggtgcatt tggtagggcc 4020
 gctggtgaca gaggacctta tggtagtgc attggacctg gtggaggta tggtcagca 4080
 gcagaagggtg gaatgtatgc tggtaatgga ggttactgg gagccgactt tgccggagac 4140
 ctggactaca acgagttagc tgtagagtgc tcagagtcaa tgcagagaca aggattatta 4200
 cagggtatgg cttatacagt tcagggaccc ccaggtcagc caggtcctca aggacccct 4260
 ggtatttcaa aagtcttctc cgcttattct aacgttactg cagacctgat ggatttctc 4320
 cagacttacg gtgcatcca aggtcctcca ggacagaagg gtgaaatggg aactcccggt 4380
 cccaagggtg acagaggtcc tgcaggacct cctggtcacc ctggaccacc tggacctaga 4440
 ggacacaaag gtgagaaggg tgacaaggga gaccaggtt acgcaggaag aagaagaaga 4500
 agaagtattg ccgtcaagcc tcaccatcac catcatcact aagcgccgc 4550

END