79241-A-PCT sequence_ST25
SEQUENCE LISTING

<110> Excaliard Pharmaceuticals, Inc.
ISIS Pharmaceuticals, Inc.

<120> Antisense oligonucleotides directed against connective tissue growth factor expression and uses thereof

<160> 165

<170> PatentIn version 3.5

<210> 1
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Positive control oligonucleotide directed to human H-ras

<400> 1
tccgtcatcg ctcctcaggg 20

<210> 2
<211> 2075
<212> DNA
<213> Homo sapiens

<220>
<221> exon
<222> (130)..(1180)

<400> 2
cccggccgac agccccgaga cgacagcccg gcgcgtcccg gtccccacct ccgaccaccg 60

ccagcgctcc aggccccgcg ctccccgctc gccgccaccg cgccctccgc tccgcccgca 120

gtgccaacc atg acc gcc gcc agt atg ggc ccc gtc cgc gtc gcc ttc gtg 171
Met Thr Ala Ala Ser Met Gly Pro Val Arg Val Ala Phe Val
1 5 10

gtc ctc ctc gcc ctc tgc agc cgg ccg gcc gtc ggc cag aac tgc agc 219
Val Leu Leu Ala Leu Cys Ser Arg Pro Ala Val Gly Gln Asn Cys Ser
15 20 25 30

ggg ccg tgc cgg tgc ccg gac gag ccg gcg ccg cgc tgc ccg gcg ggc 267
Gly Pro Cys Arg Cys Pro Asp Glu Pro Ala Pro Arg Cys Pro Ala Gly
35 40 45

gtg agc ctc gtg ctg gac ggc tgc ggc tgc tgc cgc gtc tgc gcc aag 315
Val Ser Leu Val Leu Asp Gly Cys Gly Cys Cys Arg Val Cys Ala Lys
50 55 60

cag ctg ggc gag ctg tgc acc gag cgc gac ccc tgc gac ccg cac aag 363
Gln Leu Gly Glu Leu Cys Thr Glu Arg Asp Pro Cys Asp Pro His Lys
65 70 75

ggc ctc ttc tgt gac ttc ggc tcc ccg gcc aac cgc aag atc ggc gtg 411
Gly Leu Phe Cys Asp Phe Gly Ser Pro Ala Asn Arg Lys Ile Gly Val
80 85 90

```
tgc acc gcc aaa gat ggt gct ccc tgc atc ttc ggt ggt acg gtg tac        459
Cys Thr Ala Lys Asp Gly Ala Pro Cys Ile Phe Gly Gly Thr Val Tyr
95                  100                 105                 110

cgc agc gga gag tcc ttc cag agc agc tgc aag tac cag tgc acg tgc        507
Arg Ser Gly Glu Ser Phe Gln Ser Ser Cys Lys Tyr Gln Cys Thr Cys
                115                 120                 125

ctg gac ggg gcg gtg ggc tgc atg ccc ctg tgc agc atg gac gtt cgt        555
Leu Asp Gly Ala Val Gly Cys Met Pro Leu Cys Ser Met Asp Val Arg
            130                 135                 140

ctg ccc agc cct gac tgc ccc ttc ccg agg agg gtc aag ctg ccc ggg        603
Leu Pro Ser Pro Asp Cys Pro Phe Pro Arg Arg Val Lys Leu Pro Gly
        145                 150                 155

aaa tgc tgc gag gag tgg gtg tgt gac gag ccc aag gac caa acc gtg        651
Lys Cys Cys Glu Glu Trp Val Cys Asp Glu Pro Lys Asp Gln Thr Val
    160                 165                 170

gtt ggg cct gcc ctc gcg gct tac cga ctg gaa gac acg ttt ggc cca        699
Val Gly Pro Ala Leu Ala Ala Tyr Arg Leu Glu Asp Thr Phe Gly Pro
175                 180                 185                 190

gac cca act atg att aga gcc aac tgc ctg gtc cag acc aca gag tgg        747
Asp Pro Thr Met Ile Arg Ala Asn Cys Leu Val Gln Thr Thr Glu Trp
                195                 200                 205

agc gcc tgt tcc aag acc tgt ggg atg ggc atc tcc acc cgg gtt acc        795
Ser Ala Cys Ser Lys Thr Cys Gly Met Gly Ile Ser Thr Arg Val Thr
            210                 215                 220

aat gac aac gcc tcc tgc agg cta gag aag cag agc cgc ctg tgc atg        843
Asn Asp Asn Ala Ser Cys Arg Leu Glu Lys Gln Ser Arg Leu Cys Met
        225                 230                 235

gtc agg cct tgc gaa gct gac ctg gaa gag aac att aag aag ggc aaa        891
Val Arg Pro Cys Glu Ala Asp Leu Glu Glu Asn Ile Lys Lys Gly Lys
    240                 245                 250

aag tgc atc cgt act ccc aaa atc tcc aag cct atc aag ttt gag ctt        939
Lys Cys Ile Arg Thr Pro Lys Ile Ser Lys Pro Ile Lys Phe Glu Leu
255                 260                 265                 270

tct ggc tgc acc agc atg aag aca tac cga gct aaa ttc tgt gga gta        987
Ser Gly Cys Thr Ser Met Lys Thr Tyr Arg Ala Lys Phe Cys Gly Val
                275                 280                 285

tgt acc gac ggc cga tgc tgc acc ccc cac aga acc acc acc ctg ccg       1035
Cys Thr Asp Gly Arg Cys Cys Thr Pro His Arg Thr Thr Thr Leu Pro
            290                 295                 300

gtg gag ttc aag tgc cct gac ggc gag gtc atg aag aag aac atg atg       1083
Val Glu Phe Lys Cys Pro Asp Gly Glu Val Met Lys Lys Asn Met Met
        305                 310                 315

ttc atc aag acc tgt gcc tgc cat tac aac tgt ccc gga gac aat gac       1131
Phe Ile Lys Thr Cys Ala Cys His Tyr Asn Cys Pro Gly Asp Asn Asp
    320                 325                 330

atc ttt gaa tcg ctg tac tac agg aag atg tac gga gac atg gca tga a     1180
Ile Phe Glu Ser Leu Tyr Tyr Arg Lys Met Tyr Gly Asp Met Ala
```

335 340 345

gccagagagt gagagacatt aactcattag actggaactt gaactgattc acatctcatt 1240

tttccgtaaa aatgatttca gtagcacaag ttatttaaat ctgtttttct aactggggga 1300

aaagattccc acccaattca aaacattgtg ccatgtcaaa caaatagtct atcttcccca 1360

gacactggtt tgaagaatgt taagacttga cagtggaact acattagtac acagcaccag 1420

aatgtatatt aaggtgtggc tttaggagca gtgggagggt accggcccgg ttagtatcat 1480

cagatcgact cttatacgag taatatgcct gctatttgaa gtgtaattga gaaggaaaat 1540

tttagcgtgc tcactgacct gcctgtagcc ccagtgacag ctaggatgtg cattctccag 1600

ccatcaagag actgagtcaa gttgttcctt aagtcagaac agcagactca gctctgacat 1660

tctgattcga atgacactgt tcaggaatcg gaatcctgtc gattagactg gacagcttgt 1720

ggcaagtgaa tttgcctgta acaagccaga ttttttaaaa tttatattgt aaatattgtg 1780

tgtgtgtgtg tgtgtgtata tatatatata tatgtacagt tatctaagtt aatttaaagt 1840

tgtttgtgcc tttttatttt tgtttttaat gctttgatat ttcaatgtta gcctcaattt 1900

ctgaacacca taggtagaat gtaaagcttg tctgatcgtt caaagcatga aatggatact 1960

tatatggaaa ttctgctcag atagaatgac agtccgtcaa aacagattgt ttgcaaaggg 2020

gaggcatcag tgtcttggca ggctgatttc taggtaggaa atgtggtagc tcacg 2075

<210> 3
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward PCR primer directed to human connective tissue growth factor (CTGF)

<400> 3
acaagggcct cttctgtgac tt 22

<210> 4
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse PCR primer directed to human connective tissue growth factor (CTGF)

<400> 4
ggtacaccgt accaccgaag at 22

<210> 5
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR probe directed to human connective tissue growth factor (CTGF)

<400> 5
tgtgcaccgc caaagatggt gct 23

<210> 6
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward PCR primer directed to human GAPDH

<400> 6
gaaggtgaag gtcggagtc 19

<210> 7
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse PCR primer directed to human GAPDH

<400> 7
gaagatggtg atgggatttc 20

<210> 8
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR probe directed to human GAPDH

<400> 8
caagcttccc gttctcagcc 20

<210> 9
<211> 2358
<212> DNA
<213> Homo sapiens

<220>
<221> exon
<222> (207)..(1256)

<400> 9
aaactcacac aacaactctt ccccgctgag aggagacagc cagtgcgact ccaccctcca 60

gctcgacggc agccgccccg gccgacagcc ccgagacgac agcccggcgc gtcccggtcc 120

ccacctccga ccaccgccag cgctccaggc cccgccgctc cccgctcgcc gccaccgcgc 180

cctccgctcc gcccgcagtg ccaacc atg acc gcc gcc agt atg ggc ccc gtc 233

```
                                Met Thr Ala Ala Ser Met Gly Pro Val
                                1               5

cgc gtc gcc ttc gtg gtc ctc ctc gcc ctc tgc agc cgg ccg gcc gtc      281
Arg Val Ala Phe Val Val Leu Leu Ala Leu Cys Ser Arg Pro Ala Val
10                  15                  20                  25

ggc cag aac tgc agc ggg ccg tgc cgg tgc ccg gac gag ccg gcg ccg      329
Gly Gln Asn Cys Ser Gly Pro Cys Arg Cys Pro Asp Glu Pro Ala Pro
                30                  35                  40

cgc tgc ccg gcg ggc gtg agc ctc gtg ctg gac ggc tgc ggc tgc tgc      377
Arg Cys Pro Ala Gly Val Ser Leu Val Leu Asp Gly Cys Gly Cys Cys
            45                  50                  55

cgc gtc tgc gcc aag cag ctg ggc gag ctg tgc acc gag cgc gac ccc      425
Arg Val Cys Ala Lys Gln Leu Gly Glu Leu Cys Thr Glu Arg Asp Pro
        60                  65                  70

tgc gac ccg cac aag ggc ctc ttc tgt gac ttc ggc tcc ccg gcc aac      473
Cys Asp Pro His Lys Gly Leu Phe Cys Asp Phe Gly Ser Pro Ala Asn
    75                  80                  85

cgc aag atc ggc gtg tgc acc gcc aaa gat ggt gct ccc tgc atc ttc      521
Arg Lys Ile Gly Val Cys Thr Ala Lys Asp Gly Ala Pro Cys Ile Phe
90                  95                  100                 105

ggt ggt acg gtg tac cgc agc gga gag tcc ttc cag agc agc tgc aag      569
Gly Gly Thr Val Tyr Arg Ser Gly Glu Ser Phe Gln Ser Ser Cys Lys
                110                 115                 120

tac cag tgc acg tgc ctg gac ggg gcg gtg ggc tgc atg ccc ctg tgc      617
Tyr Gln Cys Thr Cys Leu Asp Gly Ala Val Gly Cys Met Pro Leu Cys
            125                 130                 135

agc atg gac gtt cgt ctg ccc agc cct gac tgc ccc ttc ccg agg agg      665
Ser Met Asp Val Arg Leu Pro Ser Pro Asp Cys Pro Phe Pro Arg Arg
        140                 145                 150

gtc aag ctg ccc ggg aaa tgc tgc gag gag tgg gtg tgt gac gag ccc      713
Val Lys Leu Pro Gly Lys Cys Cys Glu Glu Trp Val Cys Asp Glu Pro
    155                 160                 165

aag gac caa acc gtg gtt ggg cct gcc ctc gcg gct tac cga ctg gaa      761
Lys Asp Gln Thr Val Val Gly Pro Ala Leu Ala Ala Tyr Arg Leu Glu
170                 175                 180                 185

gac acg ttt ggc cca gac cca act atg att aga gcc aac tgc ctg gtc      809
Asp Thr Phe Gly Pro Asp Pro Thr Met Ile Arg Ala Asn Cys Leu Val
                190                 195                 200

cag acc aca gag tgg agc gcc tgt tcc aag acc tgt ggg atg ggc atc      857
Gln Thr Thr Glu Trp Ser Ala Cys Ser Lys Thr Cys Gly Met Gly Ile
            205                 210                 215

tcc acc cgg gtt acc aat gac aac gcc tcc tgc agg cta gag aag cag      905
Ser Thr Arg Val Thr Asn Asp Asn Ala Ser Cys Arg Leu Glu Lys Gln
        220                 225                 230

agc cgc ctg tgc atg gtc agg cct tgc gaa gct gac ctg gaa gag aac      953
Ser Arg Leu Cys Met Val Arg Pro Cys Glu Ala Asp Leu Glu Glu Asn
    235                 240                 245
```

```
att aag aag ggc aaa aag tgc atc cgt act ccc aaa atc tcc aag cct      1001
Ile Lys Lys Gly Lys Lys Cys Ile Arg Thr Pro Lys Ile Ser Lys Pro
250                 255                 260                 265

atc aag ttt gag ctt tct ggc tgc acc agc atg aag aca tac cga gct      1049
Ile Lys Phe Glu Leu Ser Gly Cys Thr Ser Met Lys Thr Tyr Arg Ala
                270                 275                 280

aaa ttc tgt gga gta tgt acc gac ggc cga tgc tgc acc ccc cac aga      1097
Lys Phe Cys Gly Val Cys Thr Asp Gly Arg Cys Cys Thr Pro His Arg
            285                 290                 295

acc acc acc ctg ccg gtg gag ttc aag tgc cct gac ggc gag gtc atg      1145
Thr Thr Thr Leu Pro Val Glu Phe Lys Cys Pro Asp Gly Glu Val Met
        300                 305                 310

aag aag aac atg atg ttc atc aag acc tgt gcc tgc cat tac aac tgt      1193
Lys Lys Asn Met Met Phe Ile Lys Thr Cys Ala Cys His Tyr Asn Cys
    315                 320                 325

ccc gga gac aat gac atc ttt gaa tcg ctg tac tac agg aag atg tac      1241
Pro Gly Asp Asn Asp Ile Phe Glu Ser Leu Tyr Tyr Arg Lys Met Tyr
330                 335                 340                 345

gga gac atg gca tga agccagagag tgagagacat taactcatta gactggaact      1296
Gly Asp Met Ala

tgaactgatt cacatctcat ttttccgtaa aaatgatttc agtagcacaa gttatttaaa     1356

tctgtttttc taactggggg aaaagattcc cacccaattc aaaacattgt gccatgtcaa     1416

acaaatagtc tatcaacccc agacactggt ttgaagaatg ttaagacttg acagtggaac     1476

tacattagta cacagcacca gaatgtatat taaggtgtgg ctttaggagc agtgggaggg     1536

taccagcaga aaggttagta tcatcagata gcatcttata cgagtaatat gcctgctatt     1596

tgaagtgtaa ttgagaagga aaattttagc gtgctcactg acctgcctgt agccccagtg     1656

acagctagga tgtgcattct ccagccatca agagactgag tcaagttgtt ccttaagtca     1716

gaacagcaga ctcagctctg acattctgat tcgaatgaca ctgttcagga atcggaatcc     1776

tgtcgattag actggacagc ttgtggcaag tgaatttgcc tgtaacaagc cagatttttt     1836

aaaatttata ttgtaaatat tgtgtgtgtg tgtgtgtgtg tatatatata tatatgtaca     1896

gttatctaag ttaatttaaa gttgtttgtg ccttttttatt tttgttttta atgctttgat     1956

atttcaatgt tagcctcaat ttctgaacac cataggtaga atgtaaagct tgtctgatcg     2016

ttcaaagcat gaaatggata cttatatgga aattctgctc agatagaatg acagtccgtc     2076

aaaacagatt gtttgcaaag gggaggcatc agtgtccttg gcaggctgat ttctaggtag     2136

gaaatgtggt agcctcactt ttaatgaaca aatggccttt attaaaaact gagtgactct     2196

atatagctga tcagtttttt cacctggaag catttgtttc tactttgata tgactgtttt     2256

tcggacagtt tatttgttga gagtgtgacc aaaagttaca tgtttgcacc tttctagttg     2316

aaaataaagt gtatattttt tctataaaaa aaaaaaaaaa aa                        2358
```

<210> 10
<211> 6001
<212> DNA
<213> Homo sapiens

<400> 10
tatattattc actgtcaatc ttagtttata tccagataca acagggtaca ctgctcttgt 60

aatggaatca gacttcttat tttaacaaga caaaccaaat ccaatccaca tttgaagatt 120

ataggtttta atataagaaa atgcactcat ttctcaaaga ccctagtgaa gctgtgttta 180

aatgctccta ggtgaacccc ctttgcatcc cagtgttccc accctgacac ccagagcccc 240

tacctaccca acacagaatc atttgctctg atagaacaat ggatcccttt ttctggaaac 300

attgatggcc actcctccct tgtccttgcc tatataaaac tcctacatat attaagagaa 360

aactaagcaa gagttttgga aatctgcccc aggagactgc atcctgagtc acacgcgtct 420

ttgttctctt tcttgtccca aaaccgttac ctcaagtgac aaatgatcaa atctcaaata 480

tagaattcag ggttttacag gtaggcatct tgaggatttc aaatggttaa aagcaactca 540

ctccttttct actctttgga gagtttcaag agcctatagc ctctaaaacg caaatcattg 600

ctaagggttg gggggagaaa acctttttcga atttttttagg aattcctgct gtttgcctct 660

tcagctacct acttcctaaa aaggatgtat gtcagtggac agaacagggc aaacttattc 720

gaaaaagaaa taagaaataa ttgccagtgt gtttataaat gatatgaatc aggagtggtg 780

cgaagaggat agggaaaaaa aaattctatt tggtgctgga aatactgcgc ttttttttttt 840

ccttttttttt tttttctgtg agctggagtg tgccagcttt ttcagacgga ggaatgctga 900

gtgtcaaggg gtcaggatca atccggtgtg agttgatgag gcaggaaggt ggggaggaat 960

gcgaggaatg tccctgtttg tgtaggactc cattcagctc attggcgagc cgcggccgcc 1020

cggagcgtat aaaagcctcg ggccgcccgc cccaaactca cacaacaact cttccccgct 1080

gagaggagac agccagtgcg actccaccct ccagctcgac ggcagccgcc ccggccgaca 1140

gccccgagac gacagcccgg cgcgtcccgg tccccacctc cgaccaccgc cagcgctcca 1200

ggccccgccg ctccccgctc gccgccaccg cgccctccgc tccgcccgca gtgccaacca 1260

tgaccgccgc cagtatgggc cccgtccgcg tcgccttcgt ggtcctcctc gccctctgca 1320

gccgggtaag cgccgggagc ccccgctgcg gccggcggct gccagggagg gactcggggc 1380

cggccgggga gggcgtgcgc gccgaccgag cgccgctgac cgccctgtcc tccctgcagc 1440

cggccgtcgg ccagaactgc agcgggccgt gccggtgccc ggacgagccg gcgccgcgct 1500

gcccggcggg cgtgagcctc gtgctggacg gctgcggctg ctgccgcgtc tgcgccaagc 1560

agctgggcga gctgtgcacc gagcgcgacc catgcgaccc gcacaagggc ctattctgtc 1620

acttcggctc cccggccaac cgcaagatcg gcgtgtgcac cggtaagacc cgcagccccc 1680

accgctaggt gtccggccgc ctcctccctc acgcccaccc gcccgctgga aaaagaaacc 1740
gctcggactg agtttctttc tccagctgct gccagcccgc cccctgcagc ccagatccca 1800
actcgcatcc ctgacgctct ggatgtgaga gtgccccaat gcctgacctc tgcatccccc 1860
acccctctct tcccttcctc ttctccagcc aaagatggtg ctccctgcat cttcggtggt 1920
acggtgtacc gcagcggaga gtccttccag agcagctgca agtaccagtg cacgtgcctg 1980
gacggggcgg tgggctgcat gcccctgtgc agcatggacg ttcgtctgcc cagccctgac 2040
tgccccttcc cgaggagggt caagctgccc gggaaatgct gcgaggagtg ggtgtgtgac 2100
gagcccaagg accaaaccgt ggttgggcct gccctcgcgg gtgagtcgag tcttcctcta 2160
agtcagggtc gtgattctct cccagggagg gagtcctaac tgtgccgacc gaacggggga 2220
aataccttat ccaggcgttt tacatggtgt ttgtgtgctc tgctctcgca gcttaccgac 2280
tggaagacac gtttggccca gacccaacta tgattagagc caactgcctg gtccagacca 2340
cagagtggag cgcctgttcc aagacctgtg ggatgggcat ctccacccgg gttaccaatg 2400
acaacgcctc ctgcaggcta gagaagcaga gccgcctgtg catggtcagg ccttgcgaag 2460
ctgacctgga agagaacatt aaggtacatg ttctgctcct attaactatt tttcacagga 2520
aaaacagtgg ataggaccca acttagggct cttgccacgc ttgttagtat aagcccgtta 2580
tctccaaaac tatctaacca ttgagctgtt ttgctggaat gagagcttgt gtaatagcaa 2640
ccaccagttt tccactacga aatcttccac agggttagtt aattcaagac attccaagag 2700
aggctctggc tatttttgga catagcaaat gagactcaaa cttcctcccc tcaaaatata 2760
aacagaagtc agacaacaga agactaaaac acagagggtt gaagaaagcc actcctcttg 2820
tagagtcgct gatttttttt tttcctctct cttttccctt gtcttcctta gaagggcaaa 2880
aagtgcatcc gtactcccaa aatctccaag cctatcaagt ttgagctttc tggctgcacc 2940
agcatgaaga cataccgagc taaattctgt ggagtatgta ccgacggccg atgctgcacc 3000
tcccacagaa ccaccaccct gccggtggag ttcaagtgcc ctgacggcga ggtcatgaag 3060
aagaacatga tgttcatcaa gacctgtgcc tgccattaca actgtcccgg agacaatgac 3120
atctttgaat cgctgtacta caggaagatg tacggagaca tggcatgaag ccagagagtg 3180
agagacatta actcattaga ctggaacttg aactgattca catctcattt ttccgtaaaa 3240
atgatttcag tagcacaagt tatttaaatc tgtttttcta actgggggaa aagattccca 3300
cccaattcaa aacattgtgc catgtcaaac aaatagtcta tcaaccccag acactggttt 3360
gaagaatgtt aagacttgac agtggaacta cattagtaca cagcaccaga atgtatatta 3420
aggtgtggct ttaggagcag tgggagggta ccagcagaaa ggttagtatc atcagatagc 3480
atcttatacg agtaatatgc ctgctatttg aagtgtaatt gagaaggaaa attttagcgt 3540

gctcactgac ctgcctgtag ccccagtgac agctaggatg tgcattctcc agccatcaag 3600

agactgagtc aagttgttcc ttaagtcaga acagcagact cagctctgac attctgattc 3660

gaatgacact gttcaggaat cggaatcctg tcgattagac tggacagctt gtggcaagtg 3720

aatttgcctg taacaagcca gatttttaa aatttatatt gtaaatattg tgtgtgtgtg 3780

tgtgtgtgta tatatatata tatgtacagt tatctaagtt aatttaaagt tgtttgtgcc 3840

tttttatttt tgtttttaat gctttgatat ttcaatgtta gcctcaattt ctgaacacca 3900

taggtagaat gtaaagcttg tctgatcgtt caaagcatga aatggatact tatatggaaa 3960

ttctgctcag atagaatgac agtccgtcaa aacagattgt ttgcaaaggg gaggcatcag 4020

tgtccttggc aggctgattt ctaggtagga aatgtggtag cctcactttt aatgaacaaa 4080

tggcctttat taaaaactga gtgactctat atagctgatc agtttttca cctggaagca 4140

tttgtttcta ctttgatatg actgtttttc ggacagttta tttgttgaga gtgtgaccaa 4200

aagttacatg tttgcacctt tctagttgaa aataaagtgt atatttttc tataaagggc 4260

ttggttattc atttatcctt ctaaacattt ctgagtttc ttgagcataa ataggaagtt 4320

cttattaatc ataagataat tcaccaataa ttttctaaat atctttaatt attctataca 4380

ttaataaatt gattattcca tagaattttt atgtaaacat acttcacact gaatcaagta 4440

tcacagactt gcaggcatac acaccacatt gactatacag ccatttttt tgttatcttc 4500

acagaacttt atagacactt taaattcaat tctctctaga ttacttcagt ctccattaac 4560

cctgttgtat tacacttggt ccttttggca tttgtacctc tctggccgtt ataggttagt 4620

ttccaaccct tcacatcaca aactagtcta tgtgccttgc acgtggaaaa tgtttacatt 4680

ttttaaaaat tttatgctct aggtctgttt ctgaacttca ttaccttact gttaaatctg 4740

aaaattatga aatgaaatcc tcatttaaat ggagctattt cataagtctt gttttgtata 4800

attccgtttt tggttgccat gataaccaat gacaaacaga tggcataaat agaaaaggga 4860

ggatgagcaa atcttccatt cattaacatt aatagaaatt tgttttgaaa gtaattcctc 4920

catttgccca agtctttagc tttatcagac ttccagatta atgcatccta ccttaccaag 4980

tggtttatac atgagaaaat ggaattgttc aagaagcctc atgtggaaac aatattgtac 5040

ctacccaggt aggtttttac taaagagtga accaaagtga atggtaaaca aaagcaatac 5100

accaaaggca actagaatct tctccacatg aggatagctg aggattctag gggaaaaaaa 5160

aattgcagac agactaactt ttcccaaggt aattagcaac gttgtagtgc caatgtcatt 5220

tggacagaca aaaatacacc tgaaaataaa gactagctct acaaacaact gtccacacca 5280

caaaccaaag ggaaaacttc ccgtgttcag aatgtgaaaa tttatggtca aaactctggg 5340

ctttaaggat acacccacat ctgtatatag cagtgctgcc aggagcagca ccccacctcc 5400

ccaaataaat gcgcatgtac acatacacat aggcacacac acagagtaca ctgttagttc 5460

acacttcctt tctgtcaatt aattcctaac tgcaaagatg aagggccatg catgataaac 5520

gagactgact actgaattag agcattctgg aaatatagaa gcagcaggaa aagcatagat 5580

ttcacatttt ccaaataccc acattaaaga aaaaaaaaag agtcactaga ttgcaaaaca 5640

aaaatcccac aggcaatgtt tctacaaaaa ttagatggca atgcacactt tcacccccca 5700

aatatcggag gtaggggtg ccaaatcatc aaccaccgta agatctgcac cgtgtcagca 5760

catgtgtgag aaaagcagag aaacaacaag gtatctgatg cttctgagaa cacgagagct 5820

ctcaaacagc cagcaggtag tcactagata tatagaaggc caggctgaca gcagctgttg 5880

aatctagtag gggtttggcc tagcactcca acaaagctta caagccaggg ctgcctccca 5940

ggagaagatc ctcatactcc tggaagtgga atctaaattg agcaggtcac cagacagatg 6000

t 6001

<210> 11
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 11
ccagctgctt ggcgcagacg 20

<210> 12
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 12
ccagaaagc tcaaacttga 20

<210> 13
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 13
ccacaagctg tccagtctaa 20

<210> 14
<211> 20

<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 14
ggtcacactc tcaacaaata 20

<210> 15
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 15
aaacatgtaa cttttggtca 20

<210> 16
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 16
gggaagagtt gttgtgtgag 20

<210> 17
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 17
agggtggagt cgcactggct 20

<210> 18
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 18
acgaaggcga cgcggacggg 20

<210> 19
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 19
gccgacggcc ggccggctgc 20

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

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 20
ggtgcacacg ccgatcttgc 20

<210> 21
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 21
tctttggcgg tgcacacgcc 20

<210> 22
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 22
gcaccatctt tggcggtgca 20

<210> 23
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 23
gcagggagca ccatctttgg 20

<210> 24
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 24
aagatgcagg gagcaccatc 20

<210> 25
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 25
ccaccgaaga tgcagggagc 20

<210> 26
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 26
ccgtaccacc gaagatgcag 20

<210> 27
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 27
gtacttgcag ctgctctgga 20

<210> 28
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 28
gggcatgcag cccaccgccc 20

<210> 29
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 29
aggcccaacc acggtttggt 20

<210> 30
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 30
agggcaggcc caaccacggt 20

<210> 31
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 31
taagccgcga gggcaggccc 20

<210> 32
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 32
cccacaggtc ttggaacagg 20

<210> 33
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 33
agatgcccat cccacaggtc 20

<210> 34
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 34
ccagtctaat gagttaatgt 20

<210> 35

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

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 35
ttcaagttcc agtctaatga 20

<210> 36
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 36
ttttccccca gttagaaaaa 20

<210> 37
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 37
cacaatgttt tgaattgggt 20

<210> 38
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 38
acatggcaca atgttttgaa 20

<210> 39
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 39
gtttgacatg gcacaatgtt 20

<210> 40
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 40
tatttgtttg acatggcaca 20

<210> 41
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 41
tgatagacta tttgtttgac 20

<210> 42
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 42
gttccactgt caagtcttaa 20

<210> 43
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 43
tgtactaatg tagttccact 20

<210> 44
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 44
cattctggtg ctgtgtacta 20

<210> 45
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 45
taatatacat tctggtgctg 20

<210> 46
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 46
acaccttaat atacattctg 20

<210> 47
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 47
taaagccaca ccttaatata 20

<210> 48
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 48
gtaccctccc actgctccta 20

<210> 49
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 49
aagatgctat ctgatgatac 20

<210> 50
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 50
cgtataagat gctatctgat 20

<210> 51
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 51
aatagcaggc atattactcg 20

<210> 52
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 52
tacacttcaa atagcaggca 20

<210> 53
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 53
tcaattacac ttcaaatagc 20

<210> 54
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 54
ggagaatgca catcctagct 20

<210> 55
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 55
atggctggag aatgcacatc 20

<210> 56

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

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 56
tcttgatggc tggagaatgc 20

<210> 57
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 57
gaatcagaat gtcagagctg 20

<210> 58
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 58
cattgaaata tcaaagcatt 20

<210> 59
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 59
ggctaacatt gaaatatcaa 20

<210> 60
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 60
aattgaggct aacattgaaa 20

<210> 61
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 61
gttcagaaat tgaggctaac 20

<210> 62
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 62
tatggtgttc agaaattgag 20

<210> 63
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 63
ctacctatgg tgttcagaaa 20

<210> 64
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 64
tacattctac ctatggtgtt 20

<210> 65
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 65
gacaagcttt acattctacc 20

<210> 66
<211> 20
<212> DNA

<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 66
gatcagacaa gctttacatt 20

<210> 67
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 67
atgctttgaa cgatcagaca 20

<210> 68
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 68
atttcatgct ttgaacgatc 20

<210> 69
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 69
gtatccattt catgctttga 20

<210> 70
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 70
ccatataagt atccatttca 20

<210> 71
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 71
gaatttccat ataagtatcc 20

<210> 72
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 72
tctgagcaga atttccatat 20

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

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 73
tgtcattcta tctgagcaga 20

<210> 74
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 74
tttgacggac tgtcattcta 20

<210> 75
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 75
aacaatctgt tttgacggac 20

<210> 76
<211> 20
<212> DNA

<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 76
tgatgcctcc cctttgcaaa 20

<210> 77
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 77
tgccaaggac actgatgcct 20

<210> 78
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 78
cagcctgcca aggacactga 20

<210> 79
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 79
gaaatcagcc tgccaaggac 20

<210> 80
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 80
acctagaaat cagcctgcca 20

<210> 81

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

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 81
ttcctaccta gaaatcagcc 20

<210> 82
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 82
taccacattt cctacctaga 20

<210> 83
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 83
tgaggctacc acatttccta 20

<210> 84
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 84
taaaagtgag gctaccacat 20

<210> 85
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 85
caaatgcttc caggtgaaaa 20

<210> 86
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 86
tagaaacaaa tgcttccagg 20

<210> 87
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 87
tcatatcaaa gtagaaacaa 20

<210> 88
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 88
tccgaaaaac agtcatatca 20

<210> 89
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 89
acccggctgc agagggcgag 20

<210> 90
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 90
cgcttacccg gctgcagagg 20

<210> 91
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 91
gacagggcgg tcagcggcgc 20

<210> 92
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 92
agtccgagcg gtttcttttt 20

<210> 93
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 93
aactcagtcc gagcggtttc 20

<210> 94
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 94
aaagaaactc agtccgagcg 20

<210> 95
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 95
tggagaaaga aactcagtcc 20

<210> 96
<211> 20

<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 96
gcagctggag aaagaaactc 20

<210> 97
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 97
tggcagcagc tggagaaaga 20

<210> 98
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 98
agggagcacc atctttggct 20

<210> 99
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 99
tcacccgcga gggcaggccc 20

<210> 100
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 100
ggaagactcg actcacccgc 20

<210> 101
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 101
ttagaggaag actcgactca 20

<210> 102
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 102
accctgactt agaggaagac 20

<210> 103
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 103
tcacgaccct gacttagagg 20

<210> 104
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 104
gagaatcacg accctgactt 20

<210> 105
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 105
tgggagagaa tcacgaccct 20

<210> 106
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 106
ctccctggga gagaatcacg 20

<210> 107
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 107
ggtcggcaca gttaggactc 20

<210> 108
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 108
cgttcggtcg gcacagttag 20

<210> 109
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 109
cctggataag gtatttcccc 20

<210> 110
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 110
acaaacacca tgtaaaacgc 20

<210> 111
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 111
gagcacacaa acaccatgta 20

<210> 112
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 112
tgcgagagca gagcacacaa 20

<210> 113
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 113
taagctgcga gagcagagca 20

<210> 114
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 114
gtcggtaagc tgcgagagca 20

<210> 115
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 115
ttccagtcgg taagctgcga 20

<210> 116
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 116
acatgtacct taatgttctc 20

<210> 117
<211> 20

<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 117
gcagaacatg taccttaatg 20

<210> 118
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 118
taggagcaga acatgtacct 20

<210> 119
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 119
gttaatagga gcagaacatg 20

<210> 120
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 120
tgaaaaatag ttaataggag 20

<210> 121
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 121
ccactgtttt tcctgtgaaa 20

<210> 122
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 122
aagttgggtc ctatccactg 20

<210> 123
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 123
gccctaagtt gggtcctatc 20

<210> 124
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 124
caagagccct aagttgggtc 20

<210> 125
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 125
cgtggcaaga gccctaagtt 20

<210> 126
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 126
cgggcttata ctaacaagcg 20

<210> 127
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 127
gataacgggc ttatactaac 20

<210> 128
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 128
ttggagataa cgggcttata 20

<210> 129
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 129
tagttttgga gataacgggc 20

<210> 130
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 130
ttagatagtt ttggagataa 20

<210> 131
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 131
caatggttag atagttttgg 20

<210> 132
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 132
cagctcaatg gttagatagt 20

<210> 133
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 133
caaaacagct caatggttag 20

<210> 134
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 134
tccagcaaaa cagctcaatg 20

<210> 135
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 135
ctcattccag caaaacagct 20

<210> 136
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 136
aagctctcat tccagcaaaa 20

<210> 137
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 137
tacacaagct ctcattccag 20

<210> 138
<211> 20

<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 138
ggttgctatt acacaagctc 20

<210> 139
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 139
ctggtggttg ctattacaca 20

<210> 140
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 140
gaaaactggt ggttgctatt 20

<210> 141
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 141
tagtggaaaa ctggtggttg 20

<210> 142
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 142
ttaactaacc ctgtggaaga 20

<210> 143
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 143
tgtcttgaat taactaaccc 20

<210> 144
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 144
tggaatgtct tgaattaact 20

<210> 145
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 145
gccagagcct ctcttggaat 20

<210> 146
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 146
aaaaatagcc agagcctctc 20

<210> 147
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 147
tgtccaaaaa tagccagagc 20

<210> 148
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 148
tgctatgtcc aaaaatagcc 20

<210> 149
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 149
tcatttgcta tgtccaaaaa 20

<210> 150
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 150
gagtctcatt tgctatgtcc 20

<210> 151
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 151
agtttgagtc tcatttgcta 20

<210> 152
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 152
gaggaagttt gagtctcatt 20

<210> 153
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 153
cttctgttgt ctgacttctg 20

<210> 154
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 154
cctctgtgtt ttagtcttct 20

<210> 155
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 155
tttcttcaac cctctgtgtt 20

<210> 156
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 156
ggagtggctt tcttcaaccc 20

<210> 157
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 157
aggaagacaa gggaaaagag 20

<210> 158
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 158
ttctaaggaa gacaagggaa 20

<210> 159
<211> 20

<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 159
tgcccttcta aggaagacaa 20

<210> 160
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 160
ggatgcgagt tgggatctgg 20

<210> 161
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 161
ccagctgctt ggcgcagacg 20

<210> 162
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 162
gccagaaagc tcaaacttga 20

<210> 163
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 163
ccacaagctg tccagtctaa 20

<210> 164
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 164
ggtcacactc tcaacaaata 20

<210> 165
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 165
aaacatgtaa cttttggtca 20

<210> 166
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 166
tgacatggca caatgttttg 20

<210> 167
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense directed to human connective tissue growth factor (CTGF)

<400> 167
ccttccctga aggttcctcc 20

40