SEQUENCE LISTING

<110> Ractigen Therapeutics

<120> OLIGOMERIC NUCLEIC ACID FOR SKIN CARE

<130> Docket No.: 065786.11018(4US1)

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<141> 2020-01-22

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<151> 2019-01-24

<160> 428

<170> PatentIn version 3.5

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<223> Synthetic Construct

<400> 374
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aacttcagaa gtcaccaaaa aggtgactcc tccatctttc tgattcttgg atcctaaagt 120

atcttcagca agtgaagccc agtttcataa ccgaagaggt gactccatct gtcctacaga 180

cttgcagtgt gaagcttgca atggtttctc tgtatgttaa tttctccatc tctaggatgg 240

cctatgtggt tcttactaac ctcagagtgg tatcatgaag ccactgaaat gataccagaa 300

gaaaacaaga gtgattaatc ttctaggatg ataaatctat attttcttca aattcttcat 360

tttgcataaa aacctttttc agaaaagaat gttaacattg gatatatcta cacctgattt 420

gacagttcca aactacaccc caaccaccca cttctgaatg agaagaaaaa aaaatcagaa 480

gcctgcaatt gtgtaacatg 500

<210> 375
<211> 1000
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 375
tcctattctc taggtctcac atttcttctc ctctagcagt agtgggaagt gaggggtggg 60

ggacacgacc ctcccctgtt ccatcccaca ctccaacccc caaaatcccc cagggtcccc 120

gtccagctca gtcctggggg cagaaatgca gagttctcca ggaacgtggt cccagctgtt 180

tcagtgcagg ccgccccctc ctggccacca gcggaatgtc agccttccca gaggggccgg 240

gagaacagca gtcgagaagc tcccagactg gtgtgggcgc tagctgtgct cagcgtgggg 300

atgggaggtg acccagtgat aatgggaagc tgggctgcct gtcagtctgc gggggctcc 360

cacctccctg ttcccccaca gggcacctgg ggatccagcc tgatttttac cagaccctgc 420

ggcctgcatg gggctgggta tagggctgtg accttgaccc atgcagaata gaaccctgtg 480

tgtcgggatc ctccatgtgc tccagatgcc cctggggaca gcaccaacat ggccttaact 540

cccaagccat tcccctgcct ctaaccccct ggcatctgca ggcatccacc ccagacccac 600

ccaacacctc ctccccagct tcaggcgcta ggcagagacc ttggcccctg cagaatgcag 660

ccctgtccag ggtcccctac cttcccccca gatccctccc agagcaatac caacccgggc 720

ctaccttcca ggccattcaa cctgcagccc cccggcctct gtagacatcg cacccccaa 780

acccccagac ctgcccaatg cctcccctcc ccagctttgg gcagaacctg tctctagcca 840

gacctggggg tgttggggag tctggagggc cggggtgggg gctgaggcgc gggacagctg 900

gcccgtatcc tcacactggg cccggggccc agccggaggg gcgggggcct ggccactcgg 960

gccttggctg gggctgggat ttttggcctg gccgccaggc 1000

<210> 376
<211> 500
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 376
gttttggaga ggtcctcagc atgcctcttt atgcccctcc cttagctctt gccaggatat 60

cagagggtga ctggggcaca gccaggagga ccccctcccc aacaccccca acccttccac 120

ctttggaagt ctccccaccc agctccccag ttccccagtt ccacttcttc tagattggag 180

gtcccaggaa gagagcagag gggcacccct acccactggt tagcccacgc cattctgagg 240

acccagctgc acccctacca cagcacctct ggcccaggct gggctggggg gctggggagg 300

cagagctgcg aagaggggag atgtggggtg gactcccttc cctcctcctc cccctctcca 360

ttccaactcc caaattgggg gccgggccag gcagctctga ttggctgggg cacgggcggc 420

cggctccccc tctccgaggg gcagggttcc tccctgctct ccatcaggac agtataaaag 480

gggcccgggc cagtcgtcgg 500

<210> 377
<211> 500
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 377
atgagcctca gcaaaggcaa gctaggaggt cgaaggactt ccccaggtga ctcggtctag 60

tctagagttc gcaaagccta tcctccctgt agccgggtgc caagcagcct cgagcctgct 120

ccccagccca cctgccaaca aaaggcgccc tccgactgca acccagccct ccacagacag 180

gacccgccct ttcccgaagt cataagacaa agagagtgca tcactgctga aacagtgggc 240

gcacacgagc cccaaagcta gagaaaagct ggacggggct gggggcgggg tgcaggggtg 300

gaggggcggg gaggcgggct ccggctgcgc cacgctatcg agtcttccct ccctccttct 360

ctgccccctc cgctcccgct ggagccctcc accctacaag tggcctacag ggcacaggtg 420

aggcgggact ggacagctcc tgctttgatc gccggagatc tgcaaattct gcccatgtcg 480

gggctgcaga gcactccgac 500

<210> 378
<211> 500
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 378
tgatatttgc ctgaaactta acttctagga cccagggtgg gtggatgagt cgaaggggca 60

tacggtggca tttctttccg tgagtctctt acagtctcct atttaaattg agttaggatt 120

acttctggca aaatcccaac ataaaaatct tctaggaaga tcagttctgt aaattagaca 180

tactagataa atgggcatca agcagttttt caaaattatg cagttgttaa cttcataagg 240

ggaaataaaa atgtatgcat ttacattgta tgtattaaaa caaggcagag catttctata 300

cgttcctaag ttatacaaac atatatgtaa gagtgaaata tgtaaaaaaa cttttacata 360

agcagatgca tacaaactcc agatgtgctc tttttcttac tgtgggttgt gtcttctata 420

agggaaaaag aaatatttat catttctttt actgctgagg ggatgggtgc ggctctcata 480

tttcagaaag gggctggaaa 500

<210> 379
<211> 500
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 379
agagaagtgg agaggaagaa agggatggag agaaagacag aaacttggag aaatgtggta 60

atggggagag agatgagggt accaacaaag agatgaggag aaatagtggg ttagggagaa 120

agaaagggat ggagggaaat acagggatag gggatggggg gatgagggga acccccaaaa 180

tgcaagtgag gtggaagaga aaaatcaggg gagacaaggg acgagagggg ggaggaagag 240

agaagaagac atagaggagg gagggagagg agggggagtg atggcagaga ggactagagg 300

aggggcgcgg gtagacatgg gggcctggga agggaggccc gtctggctga gggggtggg 360

agtaatagcg ggaagcgggt ggagctgccc ggctgggccg tgacctcaga gcccctggcc 420

cagcttagcc tgactgacgt cagcgctcgc tcccgccccc gcctgcgctg gtcttcaaat 480

gacccccctc cagctctctg 500

<210> 380
<211> 1000
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 380
ggagtggtgg ggggaggagt aaccaaaaaa cgaactctac ccagccttgg ggcattgtga 60

aaacgacgag gaaaggccat ctccaagcaa gacatatttg tcctcgtcaa ctttgcagaa 120

ggcttgcaaa aagcaaaagc cagttaagcc atttccttca agatggctaa atataagtcc 180

tccagaaaac aatttttatt attttatttt taatgcgcgc tgtttgagta tgtttacgtt 240

aggggaccag attgagcaaa aatatacata taattacttt tctatgtttt ccgcccaccc 300

acggcagaaa cctctttatg agaaaggctt tgacacttga cgtcagctca gaaacttttg 360

agttggcggg aagaaagggt taacaagtgg tggaccagcg cgatcttttt agagtcccag 420

ccggctgtcg aaggctccag gtacacacac acacgcacac acttacacac acacacacac 480

acgtgcacac acccctccca actgttcctc cttgggtcgg ttacttagct gaagggcacc 540

atttggcttt aaaacaaatt acttcagcgc cacagggagt ttatcgcttg gagggaactt 600

gtaacgcggg agttcaggga aatccaagag gcgagggctc ccacctccgc cgccagagga 660

aagtaaggaa tcaggtggtg gccccctatg tgtcttgcat ttctctgcac acgttagcaa 720

tcaagttaat tgaattcatt ggagtttaga accggcctgt agctcagaga aggctttgaa 780

tggccaattt ctctctctcc ctctcccccc ccccgcctcc cgctcgcccg cccgcccgcg 840

ctcccagttc cctcccctca gggttcccca gtccacacct ccctctccac ttccctcacc 900

cccccactcc ctccgccgcc ctattaaaac acccaccagc tcacttgtta agacccccct 960

aagttggagg aggcagaagg gcaacaacgg cggggaagga 1000

<210> 381
<211> 500
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 381
gtggtgcgat ttcagctcac tgcaacctcc acctgcgggg ttcaagcgat tctcctgcct 60

cagcctcccg agtagctggg attacgggca tggtgcccgt aacgccgaaa gtgctgagat 120

tacaggcttg agccacggcg cccggccact catttttaa aaactagtta ttaattataa 180

tttctcttca agttttcctg agatgtaaaa actcatcgcc ttcagctggt tctaaacttc 240

ttgtctctgc taacaactct ccccctcct cgatctcacc ccaccccagt gcaccccaac 300

tcacttcatc tcactttact cgagtctagc actatctttt agggacctga aaactactgt 360

cgataaggtc agttgggaat ttaggaggtc atggatgtcg gaaataaagg tgtgaaaaag 420

aagaggagga attgttttgg ctttaagaca ccggaacctc caaggttcct acaaaaccgt 480

ttgcagcttt tgcaaaccgc 500

<210> 382
<211> 500
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 382
ggacatttgt gggacacata ggctgggtca gggctgaaag aggtgctggt tatggccggg 60

ggcagggact catgcctgta atcccaacag cccaggagga tgagacagga ggaatgcttg 120

aggccaaaat ttcgaggccg gaagttccag acgagcctgg gcaacacagc aagaccctgt 180

ctctagaaaa ggaaagaaag aaccgctggt tgtggaagcc agccatggcc cagagctcag 240

cagtgtagga gaggagggtg cgggcctgag agaggcagca ggcttggctg gagaggcaga 300

aggaaaacca aggcaggaga gtgtcctgga agctgggaga aggcagaggg agatcgaggc 360

ttactttctg gctgaggggc ctagggtgag tcactttggg aggcttgatt tcctcctctg 420

tgaaatgggc aacacaccta cccttgccca cctcaccccc ctcaccccgt cgacgtcgag 480

tgaggagcag ctgtgaggag 500

<210> 383
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 383
acuacugagu gacaguagat t 21

<210> 384
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 384
ucuacuguca cucaguagut t 21

<210> 385
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 385
cactctgggc atcctcatcg 20

<210> 386
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 386
gcgaagtgcc agattgcatc ata 23

<210> 387
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 387
tcctcagaga agccccaaga 20

<210> 388
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 388
agccacatcc aaggacaatc a 21

<210> 389
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 389
cggctcagag tcacccac 18

<210> 390
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 390
aagtccaggc tgtccaggg 19

<210> 391
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 391
cagccggaga tagaggacca 20

<210> 392
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 392
cagcaaagtt cccaccgaga 20

<210> 393
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 393
ccaggagcta acggtctcag 20

<210> 394
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 394
cagggtttcc atctcttcca 20

<210> 395
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 395
tcctggtgga gttcctggag 20

<210> 396
<211> 20
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<220>
<223> Synthetic Construct

<400> 396
ccgggaactg gcttaagagg 20

<210> 397
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 397
taggaataac ctcttgcagc agt 23

<210> 398
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 398
gacctggagg tgtacttggt 20

<210> 399
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 399
cagaatccaa acagacagtt c 21

<210> 400
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 400
taaggtgttg tgtgtgactg a 21

<210> 401
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 401
ggaaggtttt gctgccttgg 20

<210> 402
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 402
gcaccggcat cctgcaa 17

<210> 403
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 403
caacttggtc tcacagtggc t 21

<210> 404
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 404
gtgtcagaga ggacagctga aaa 23

<210> 405
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 405
atggacagga ctgaacgtct t 21

<210> 406
<211> 20
<212> DNA

<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 406
tccagcaggt cagcaaagaa 20

<210> 407
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 407
atcaccatct tccaggagcg a 21

<210> 408
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 408
ttctccatgg tggtgaagac g 21

<210> 409
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> (20)..(21)
<223> deoxythymine (dT) base

<400> 409
ccggcaucuu ugcuaccuat t 21

<210> 410
<211> 21
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<213> Artificial Sequence

<220>
<223> Synthetic Construct

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<222> (20)..(21)
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<400> 410
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<210> 411
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<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> (20)..(21)
<223> deoxythymine (dT) base

<400> 411
gcaguugcaa uggccauuut t 21

<210> 412
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> (20)..(21)
<223> deoxythymine (dT) base

<400> 412
aaauggccau ugcaacugct 20

<210> 413
<211> 21
<212> DNA
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<220>
<223> Synthetic Construct

<220>
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<222> (20)..(21)
<223> deoxythymine (dT) base

<400> 413
gucucgcugu gauagaucat t 21

<210> 414
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<220>
<223> Synthetic Construct

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<222> (20)..(21)
<223> deoxythymine (dT) base

<400> 414
ugaucuauca cagcgagact t 21

<210> 415
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<220>
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<220>
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caaucaccug cguacagaat t 21

<210> 416
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<223> deoxythymine (dT) base

<400> 416
uucuguacgc aggugauugt t 21

<210> 417
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<220>
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<210> 418
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<210> 419
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<220>
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<220>
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<222> (20)..(21)
<223> deoxythymine (dT) base

<400> 419
gcucugcuuc aucccacuat t 21

<210> 420
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<400> 420
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<210> 421
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<222> (20)..(21)
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<400> 421
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<210> 422
<211> 21
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<220>
<223> Synthetic Construct

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<222> (20)..(21)
<223> deoxythymine (dT) base

<400> 422
uagaggaccg cugaugcagt t 21

<210> 423
<211> 21
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<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> (20)..(21)
<223> deoxythymine (dT) base

<400> 423
ccagacuacu uaaggaaaut t 21

<210> 424
<211> 21
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<220>
<223> Synthetic Construct

<220>
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<223> deoxythymine (dT) base

<400> 424
auuuccuuaa guagucuggt t 21

<210> 425
<211> 21
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<213> Artificial Sequence

<220>
<223>  Synthetic Construct

<220>
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<222>  (20)..(21)
<223>  deoxythymine (dT) base

<400>  425
ccuacaugcu ggacaucuut t                                                21

<210>  426
<211>  21
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<213>  Artificial Sequence

<220>
<223>  Synthetic Construct

<220>
<221>  misc_feature
<222>  (20)..(21)
<223>  deoxythymine (dT) base

<400>  426
aagaugucca gcauguaggt t                                                21

<210>  427
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<400>  427
cccacuauag cgaccagaut t                                                21

<210>  428
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<220>
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<221>  misc_feature
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<223>  deoxythymine (dT) base

<400>  428

aucuggucgc uauagugggt 20