



U02324 (typeI-alpha2c) U02322 (typeI-beta4a)

Type I: 1-99:

ATGTCTGAGCGCAAAGAAGGCAGAGGCCAAGGGGAAGGGCAAGAAGAAGGACCGGGGATCCCGCGGGAAGCCCGG
GCCCGCCGAGGGCGACCCGAGCCCA

EGF-like 502-637:

TCCACATCAACATCCACGACTGGGACCAGCCATCTCATAAAGTGTGCGGAGAAGGAGAAAACCTTTCTGTGTGAATGG
GGGCGAGTGCTTCACGGTGAAGGACCTGTCAAACCCGTCAAGATACTTGTGCAAGTGCC

Alfa: 638-700:

AACCTGGATTCACTGGAGCAAGATGTACTGAGAATGTACCCATGAAAGTCCAAACCCAAGAAA

Beta: 638-691

CAAATGAGTTTACTGGTGATCGTTGCCAAAACCTACGTAATGGCCAGCTTCTACA

AF194993 II-beta-1

Type II: 1-513:

CCCAGCGTGGGCTCGGTGCAGGAGCTGGCCCGCGCGCCGCGGTGGTGATCGAGGGAAAGGTGCACCCGCCGCGG
CGGCAGCAGGGGGCACTCGACAGGAAGGCAGCAGGCGAGGCAGGGGCGCGGGACCAGCCCGTCCAGGA
CTCGCCACCTTCACAGACCCTCTGCCTGCTGTCAACTGGACCCTGCCACTGGGGGCCCGAGCCCAGCACCGATCA
GCCCGGGGACCCCGCGCCCTATCTGGTCAAGGTGCACCAGGTGTGGGCTGTGAAAGCCGGGGGTTTGAAGAAGGAC
TCGCTACTACCGTGCGCCTGGATACTGGGGCCACCCAGCCTTCCCGTCTGCGGGCGGCTCAAGGAGGACAGCAG
GTACATCTTCTTCATGGAGCCGATGCCAACAGCAGCGGCCGCGCGCCGCCCTTCCGAGCCTCGTTTCCCCACT
GGAGACTGGCCGCAACCTCAAGAAGGAGGTCAGCCGGGTGTTGTGCAAGCGGTGC

EGF-like: 916-1051

TCCACATCGACATCCACGACTGGGACCAGCCATCTCATAAAGTGTGCGGAGAAGGAGAAAACCTTTCTGTGTGAATGG
GGGCGAGTGCTTCACGGTGAAGGACCTGTCAAACCCGTCAAGATACTTGTGCAAGTGCC

Beta: 1052-1105

CAAATGAGTTTACTGGTGATCGTTGCCAAAACCTACGTAATGGCCAGCTTCTACA

AF194439 III-alpha-2a

Type III: 1-669:

ATGGAGATTTATTCCCCAGACATGTCTGAGGTAGCTGGCGGGAGGTCCTCCAGCCCCTCCACTCAGCTGAGTGCAGTT
CCATCTCTTGATGGGCTTCCGGCAGCGGAGGAACATATACCAGACACCCACACAGAAGATGAGAGAAGCCCTGGACT
CCTGGGCCTGGCGGTGCCCTGCTGTGTGTGCCTGGAAGCTGAGCGCCTGAGAGGGTGTCTCAACTCCGAGAAGATCT
GCATTGTTCCATTCTGGCTTGCCTAGTCAGCCTCTGCCTCTGCATTGCTGGCCTGAAGTGGTATTTGTGGACAAGAT
ATTTGAATACGACTCTCCTACCCACCTTGACCCTGGGGGGTTAGGCCAGGACCCTGTGATTTCTCTGGATCCAAGTCT
GCCCCAGCCATTTTGGTATCATCCGAGGCATACACTTCACCTGTCTCTAAGGCTCAGTCTGAAGCTGGGGCTCATGTTA
CAGTACAAGGTGACCATGCTGCTGTGGCCTCTGAACCTTCAGCAGTACCGACCCGGAAGAACCGGCTGTCTGCTTTTC
CTCCCTTTACCCTACTGCACCGCCCTTCCCTTCTCCAGCTCGGACCCCTGAGGTGAGAACACCCAAGTCAGGAACTCA
GCCACAAACAACAGAACTAACCTGCAAAGTCTCCTAAACTT

EGF-like: 670-805:

TCCACATCAACATCCACGACTGGGACCAGCCATCTCATAAAGTGTGCGGAGAAGGAGAAAACCTTTCTGTGTGAATGG
GGGCGAGTGCTTCACGGTGAAGGACCTGTCAAACCCGTCAAGATACTTGTGCAAGTGCC

Alpha: 806-868:

AACCTGGATTCACTGGAGCAAGATGTAAGTACTGAGAATGTACCCATGAAAGTCCAAACCCAAGAAA

AF194438 III-beta-1a /DQ176766 III-beta-3

Type III: 1-669 like

ATGGAGATTTATTCCCCAGACATGTCTGAGGTAGCTGGCGGGAGGTCCTCCAGCCCCTCCACTCAGCTGAGTGCAGTT
CCATCTCTTGATGGGCTTCCGGCAGCGGAGGAACATATACCAGACACCCACACAGAAGATGAGAGAAGCCCTGGACT
CCTGGGCCTGGCGGTGCCCTGCTGTGTGTGCCTGGAAGCTGAGCGCCTGAGAGGGTGTCTCAACTCCGAGAAGATCT
GCATTGTTCCATTCTGGCTTGCCTAGTCAGCCTCTGCCTCTGCATTGCTGGCCTGAAGTGGTATTTGTGGACAAGAT
ATTTGAATACGACTCTCCTACCCACCTTGACCCTGGGGGGTTAGGCCAGGACCCTGTGATTTCTCTGGATCCAAGTCT
GCCCCAGCCATTTTGGTATCATCCGAGGCATACACTTCACCTGTCTCTAAGGCTCAGTCTGAAGCTGGGGCTCATGTTA
CAGTACAAGGTGACCATGCTGCTGTGGCCTCTGAACCTTCAGCAGTACCGACCCGGAAGAACCGGCTGTCTGCTTTTC
CTCCCTTTACCCTACTGCACCGCCCTTCCCTTCTCCAGCTCGGACCCCTGAGGTGAGAACACCCAAGTCAGGAACTCA
GCCACAAACAACAGAACTAACCTGCAAAGTCTCCTAAACTT

EGF-like: 670-805 like

TCCACATCAACATCCACGACTGGGACCAGCCATCTCATAAAGTGTGCGGAGAAGGAGAAAACCTTTCTGTGTGAATGG
GGGCGAGTGCTTCACGGTGAAGGACCTGTCAAACCCGTCAAGATACTTGTGCAAGTGCC

Beta: 806-859:

CAAATGAGTTTACTGGTGATCGTTGCCAAAACCTACGTAATGGCCAGCTTCTACA



- Oligo
- Sequence
 - U02324 NRG1 I alpha2c
 - U02322 NRG1 I beta4a
 - AF194993 NRG1 II beta1a
 - AF194439 NRG1 III-alpha2a
 - AF194438 NRG1 III-beta1a
 - DQ176766 NRG1 III-beta3
- Multiple alignment

Oligo | Oligo list | Sequence | Sequence list | Multi-alignment | Multi-alignment list

Name: U02324 NRG1 I alpha; Long name: _____

Description: _____

Length: 1269 Type: DNA checksum: 5658 Author: _____ Creation date: 04/10/2020

Sequence header

Sequence annotations

Name	init	end	comments
type I	1	99	
EGF-like	502	637	
alpha	638	700	

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1 atgtctgagc gcaagaagg cagaggcaag ggaaggga agaagaagga
51 cgggggatcc cggggaagc cggggccgc cgaggcgac cggagccca
101 cactgcctcc cagattgaaa gaaatgaaga gccaggagtc agctgcaggc
151 tccaagctag tgctccgggt cgaaccagc tccagtagtact cctcactcag
201 attcaaatgg tcaagaatg ggaacgagct gaaccgaaa aataaacag
251 aaaacatcaa gatacagaag aagccaggga agtcagagct tcgaattaac
301 aaagcatccc tggctgactc tggagagtat atgtgcaaa tgatcagcaa
351 gttaggaat gacagtgcct ctgccaaat caccattgtt gagtcaaacg
401 agttcatcac tggcatgcca gcctcgactg agacagccta tgtgtcctca
451 gagtctccca ttagaatctc agtttcaaca gaaggcgcaa acacttcttc
501 atccacatca acatccaaga ctgggaccag ccatctcata aagtgtcggg
551 agaaggagaa aactttctgt gtgaatgggg gcgagtgcct cacggtgaag
601 gacctgtcaa acccgtcaag ataactgtgc aagtgcaca ctggattcac
651 tggagcaaga tgtactgaga atgtaccat gaaagtcaa acccaagaaa
701 aagcggagga actctaccag aagaggggtc tgacaattac tggcatctgt
751 atgcacctgc tgggtgctgg catcatgtgt gtggtggcct actgcaaaac
801 caagaagcag cggcagaagc tcatgatcg gctcggcag agtctcgggt
851 caaacccaaa caacctata aacataccca ataacctcca ccaccaaac
    
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Oligo list (0 oligonucleotides)



- Oligo
- Sequence
 - U02324 NRG1 I alpha2c
 - U02322 NRG1 I beta4a
 - AF194993 NRG1 II beta1a
 - AF194439 NRG1 III-alpha2a
 - AF194438 NRG1 III-beta1a
 - DQ176766 NRG1 III-beta3
- Multiple alignment

Oligo | Oligo list | Sequence | Sequence list | Multi-alignment | Multi-alignment list

Name: U02322 NRG1 I beta4; Long name: _____

Description: _____

Length: 1989 Type: DNA checksum: 5488 Author: _____ Creation date: 04/10/2020

Sequence header

Sequence annotations

Name	init	end	comments
type I	1	99	
EGF-like	502	637	
beta	638	691	

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1 atgtctgagc gcaagaagg cagaggcaag ggaaggga agaagaagga
51 cgggggatcc cggggaagc cggggccgc cgaggcgac cggagccca
101 cactgcctcc cagattgaaa gaaatgaaga gccaggagtc agctgcaggc
151 tccaagctag tgctccgggt cgaaccagc tccagtagtact cctcactcag
201 attcaaatgg tcaagaatg ggaacgagct gaaccgaaa aataaacag
251 aaaacatcaa gatacagaag aagccaggga agtcagagct tcgaattaac
301 aaagcatccc tggctgactc tggagagtat atgtgcaaa tgatcagcaa
351 gttaggaat gacagtgcct ctgccaaat caccattgtt gagtcaaacg
401 agttcatcac tggcatgcca gcctcgactg agacagccta tgtgtcctca
451 gagtctccca ttagaatctc agtttcaaca gaaggcgcaa acacttcttc
501 atccacatca acatccaaga ctgggaccag ccatctcata aagtgtcggg
551 agaaggagaa aactttctgt gtgaatgggg gcgagtgcct cacggtgaag
601 gacctgtcaa acccgtcaag ataactgtgc aagtgcaca atgagtttac
651 tggtagatcgt tgcacaaact acgtaatggc cagcttctac atgacttcta
701 ggaggaaga gcaagaaca gagaagcctc tagaaagaaa atggatcat
751 agccttggta aagaatcgaa agcggaggaa cctcaccaga agaggggtgt
801 gacaattact ggcactgta tcgacctgct ggtggtcggc atcatgtgtg
851 taatcccta ctcaaaaacc aaaaaccacc aacaaaacct tcatatcda
    
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File Edit Oligo Sequence Multiple alignment Help

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Oligo | Oligo list | Sequence | Sequence list | Multi-alignment | Multi-alignment list

Name: AF194993 NRG1 II bet Long name

Description

Length: 2349 Type: DNA checksum: 2909 Author Creation date: 04/10/2020

Sequence header

Sequence annotations

Name	init	end	comments
type II	1	513	
EGF-like	916	1051	
beta	1052	1105	

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101  aggcagcagc  cgaggcagge  gcaggggggc  gggaccagcc  cgtccaggac
151  tcgccaccct  cacaggaacc  tctgcctgct  gtcaactgga  cccctgccac
201  tgggggcccc  gagcccagca  ccgatcagcc  cggggaccoc  ggcgccatc
251  tgggtcaaggt  gcaccaggte  tgggctgtga  aagccggggg  ttgaaaga
301  gactcgttac  tcaccgtgce  cctggatacc  tggggccacc  cagcctccoc
351  gtccctgggg  cggctcaagg  aggacagcag  gtacatcttc  tccatggagc
401  cggatgcccc  cagcagcggc  cgcgcgcgcg  ccgcctcccg  agcctcgttt
451  cccccactgg  agactggccc  baacctcaag  aaggaggtca  gccgggtgtt
501  gtgcaagcgg  tggcactgct  ctcccagatt  gaaagaaatg  aagagccagg
551  agtcagctgc  aggctccaag  ctatgtctcc  ggtgcgaaac  cagctccagc
601  tactcctcac  tcagattcaa  atggttcaag  aatgggaacg  agctgaaccg
651  caaaaataaa  ccagaaaaca  tcaagataca  gaagaagcca  ggggaagtca
701  agcttcgaat  taacaaagca  tccctggctg  acctctggaga  gtatatgtgc
751  aaagtgatca  gcaagttagg  aatgacagct  gccctctgcca  acatccacc
801  tgttgagtca  aacgagttca  tcactggcat  gccagcctcg  actgagacag
851  cctatgtgtc  ctcaagagtc  ccattagaa  tctcagtttc  aacagaagcc
901  gcaaacactt  cttcatccac  atcgacatcc  acgactggga  ccagccatct
951  cataaagtgc  gcggagaagg  agaaaacttt  ctgtgtgaat  gggggcgagt
1001  gcttcacggc  gaaggacctg  tcaaacccgt  caagatactt  gtgcaagtgc
1051  caaatgagt  tctctgtgga  tcgttgccaa  aactacgtaa  tggccagctt
1101  ctacaagcat  cttgggattg  aatttatgga  agcggaggaa  cctctaccaga

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File Edit Oligo Sequence Multiple alignment Help

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Oligo | Oligo list | Sequence | Sequence list | Multi-alignment | Multi-alignment list

Name: AF194439 NRG1 III-alf Long name

Description

Length: 2088 Type: DNA checksum: 3884 Author Creation date: 28/10/2019

Sequence header

Sequence annotations

Name	init	end	comments
EGF-like domain	870	805	
exon alpha	808	888	
type III	1	889	

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1  atggagatt  attcccaga  catgtctgag  gtagctggcg  ggaggtccc
51  cagccccctc  actcagctga  gtgcagttcc  atctcttgat  gggtctccgg
101  cagcgggagga  acatatacca  gacacccaca  cagaagatga  gagaagccct
151  ggaactcctgg  gcctggcggc  gccctcgtgt  gtgtgcctgg  aagctgagcg
201  cctgagaggg  tgtctcaact  ccgagaagat  ctgcattggt  cccattctgg
251  cttgcctagt  cagcctctgc  ctctgcattg  ctggcctgaa  gtgggtattt
301  gtggacaaga  tatttgaata  cgaactctct  acccaccctg  accctggggg
351  gttaggccag  gacocctgta  tttctctgga  tccaactgct  gccccagcca
401  ttttggtatc  atccgaggca  tacacttcac  ctgtctctaa  ggctcagttc
451  gaagctgggg  ctcatgttac  agtacaaggt  gaccatgctg  ctgtggccoc
501  tgaaccttca  gcagtaccga  cccggaagaa  ccggctgtct  gcttttccct
551  cctttcacc  taactgaccg  cccttcocct  ctccagctcg  gaccocctgag
601  gtgagaacac  ccaagtccgg  aactcagcca  caaacaacag  aaactaacct
651  gcaaacctgct  cctaaacttc  ccacatcaac  atccaagact  gggaccagcc
701  atctcataaa  gtgtggggag  aaggagaaaa  cttctctgtg  gaatgggggc
751  gagtgttcca  cgttgaagga  cctgtcaaac  ccgtcaagat  acttgtgcaa
801  gtgccaacct  ggattcactg  gagcaagatg  tactgagaat  gtaccatgga
851  agtcccaaac  ccaagaaa  gccggaggac  tctaccagaa  gagggtgctg
901  acaattactg  gcatctgtat  gcocctgctg  gtggtggcca  tcatgtgtgt
951  ggtggcctac  tgcaaaaaca  agaagcagcg  gcagaagctt  catgatcggc
1001  ttggcagag  tcttcggcca  gaacggagca  acctggtgaa  catagcgaat

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File Edit Oligo Sequence Multiple alignment Help

Oligo | Oligo list | Sequence | Sequence list | Multi-alignment | Multi-alignment list

Name: AF194438 NRG1 III-be Long name

Description:

Length: 2103 Type: DNA checksum: 5722 Author: Creation date: 28/10/2019

Sequence header:

Sequence annotations

Name	init	end	comments
beta	806	859	
type III	1	869	
EGF-like	870	805	

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1 atggagattt attccccaga catgtctgag gtagctggcg ggaggctctc
51 cagccctcc actcagctga gtgcagcccc atctcttgat gggcttccgg
101 cagcggagga acatatacca gacaccacca cagaagatga gagaagccct
151 ggactcctgg gcctggcggt gccctgctgt gtgtgctcgg aaagctgagcg
201 cctgagaggg tgtctcaact ccgagaagat ctgcatgttt cccattctgg
251 cttgctagt cagcctctgc ctctgcatgt ctggcctgaa gtgggtatct
301 gtggacaaga tatttgaata cgactctcct acccaacctg accctggggg
351 gttaggccag gaccctgtga tttctctgga tccaactgct gccccagcca
401 ttttggatc atctgaggca tacacttcac ctgtctctaa ggctcagctt
451 gaagctgggg ctcatgttac agtacaaggt gaccatgctg ctgtggcctc
501 tgaaccttca gcagtaccga cccggaagaa ccggctgtct gcttttctct
551 cctttcactc tactgcaccg ccctccctt ctccagctcg gaccctgag
601 gtgagaacac ccaagtccag aactcagcca caaacaacag aaactaacct
651 gcaaaactgct cctaaacttc ccacatcgac atccaagact gggaccagcc
701 atctcataaa gtgtgctggg aaggagaaaa ctttctgtgt gaatgggggc
751 gagtgcttca cgttgaagga cctgtcaaac ccgtcaagat acttgtgcaa
801 gtgccc aaat gagtttactg gtgatcgttg ccaaaactac gtaatggcca
851 gcttttaca gcatcttggg attgaattta tggaaaggga ggaactctac
901 cagaagaggg tgctgacaat tactggcatc tgtatcgccc tgctggtggt
951 cggcatcatg tgtgtgtggg cctactgcaa aaccaagaag cagcggcaga
1001 agcttcata tggcttctgg cagactcttc gttcagaaga gaggaaactg

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File Edit Oligo Sequence Multiple alignment Help

Oligo | Oligo list | Sequence | Sequence list | Multi-alignment | Multi-alignment list

Name: DQ176766 NRG1 III-be Long name

Description:

Length: 894 Type: DNA checksum: 5695 Author: Creation date: 28/10/2019

Sequence header:

Sequence annotations

Name	init	end	comments
type III	1	869	
EGF-like	870	805	
beta	806	859	

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1 atggagattt attccccaga catgtctgag gtagctggcg ggaggctctc
51 cagccctcc actcagctga gtgcagcccc atctcttgat gggcttccgg
101 cagcggagga acatatacca gacaccacca cagaagatga gagaagccct
151 ggactcctgg gcctggcggt gccctgctgt gtgtgctcgg aaagctgagcg
201 cctgagaggg tgtctcaact ccgagaagat ctgcatgttt cccattctgg
251 cttgctagt cagcctctgc ctctgcatgt ctggcctgaa gtgggtatct
301 gtggacaaga tatttgaata cgactctcct acccaacctg accctggggg
351 gttaggccag gaccctgtga tttctctgga tccaactgct gccccagcca
401 ttttggatc atctgaggca tacacttcac ctgtctctaa ggctcagctt
451 gaagctgggg ctcatgttac agtacaaggt gaccatgctg ctgtggcctc
501 tgaaccttca gcagtaccga cccggaagaa ccggctgtct gcttttctct
551 cctttcactc tactgcaccg ccctccctt ctccagctcg gaccctgag
601 gtgagaacac ccaagtccag aactcagcca caaacaacag aaactaacct
651 gcaaaactgct cctaaacttc ccacatcgac atccaagact gggaccagcc
701 atctcataaa gtgtgctggg aaggagaaaa ctttctgtgt gaatgggggc
751 gagtgcttca cgttgaagga cctgtcaaac ccgtcaagat acttgtgcaa
801 gtgccc aaat gagtttactg gtgatcgttg ccaaaactac gtaatggcca
851 gcttttaca gcatcttggg attgaattta tggaaaggga ggaactctac

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