

Product datasheet for **RG235387**

SEC16A (NM_001276418) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SEC16A (NM_001276418) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SEC16A
Synonyms: KIAA0310; p250; SEC16L
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG235387 representing NM_001276418
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGCAGCCACCGCCAGACGGTCCCGTCTGGCATGGCTGGGCCACCTCCAGCCGGGAATCCTCGGAGCG
 TGTTCTGGGCTAGCAGCCCTTACAGGAGACGGGCTAATAAATGCAGCAGTGGCTCCGACAACCTTGCC
 GTTGCAGCCGGTACGGATCCATTTGCTTTTAGTAGACAGGCGCTCAAAGTACACCACTGGGCAGTTCC
 TCCAAAAGCAGTCCACCTGTCTTGAAGGCCAGCCCCGAGGGTTTTCTCAGCACCCCGTTTGCTTG
 TTCTCACACACATGCCAGAGATAGCTCTCAGGACCCTGTGAGCCCTGCCTGGACCTCTGACACAGCC
 CAGAGCACATGCCAGTCCGTTTTCTGGTGCATTGACACCTTACAGCACCTCCTGGGCTGAGATGAACAGG
 AGTGCAGAGGTCGGTCCAGTTCAGAGCCTGAAGTTCAGACTCTGCCATATCTTCTCACTACATCCAG
 GAGTGGATCCTGAAACGTCTCATGGGGGCCACCCTCATGGGAACATGCCTGGGCTCGACCGACCCCTGAG
 CAGGCAAACCCACATGACGGTGTGGTCAACCCAGCAGCATCCCCCTCCCTCAGCCTGGTCTGCAG
 ATGCCAGGACAGTGGGGGCCAGTGCAGGGAGGCCACAGCCCTCGGGGCAACATCGTTACCCTGCCCTG
 AAGGACCTGTTCCAGCGGGTGCCTGTGCCACCAGCGTTTCTCATTCCCCACCCCGTCCATCTTACA
 TCAGGGCCCTGGTCATGAGCAACACAGCCCTCTGGTGGCTCCCCAGCAGCCTTGCCAGTGACGGAAGA
 GACGAGGTGAGCCACTTGCAAAGTGAAGCCACCTGGCCAATAACTCTGATCCTGAAAGTACATTCAGGC
 AAAATCCCAGAATTGTGAATCACTGGGCAAGCCAGAGCTCAGGCAGAATCCAGGAGTGAAGAATGAGCA
 CCGGCCCGCCTCTGCTCTTGTGAACCCCTCGCCCGGGGAGATAGCCAGAAAACCGTACGACACCCCA
 CTGGGGCTGGGGCCGGTCTGGCTGTGCCCGCTAGAAGCAGACTCAGGAGCTTCAGGAGCTCTGGCGA
 TGTTTTCCAAGGGGAGAGACAGAAAATGAGGAGAATCTCTCATCTGAAAAAGCAGGCTTATCTGGTCA
 AGCGGACTTTGACGATTTCTGCTCCAGCCCTGGGCTAGGCCGTCGCCCGCACCTACACACGTGGGGCA
 GGCAGCCTCTGCCAGGCCCTTCCCAGGCCAGCAATGAGGCTGCTGGTGATGTGGGGTGACACAG
 CGAGCACAGGGGTGCCGGATGCCAGCGGCTCGCAGTATGAGAATGTTGAGAACTAGAATTTGTTAGAA
 TCAAGAAGTTCTGCCAAGTGAAGCCCTCAATTTGACCCCTTCTCCCGAGTGACCAGTTCAGATATGGG



[View online >](#)

CCCCCTCCTGGGCCAGCTGTGCCAGGCATGGTGCTGTGTGCCACACCGGAGCCCCTGATGCCCACTGC
ATACAGTGCACCCTGACAGCGTGTATCCAGCTATAGCAGCAGAAGCCACGGAAGGCTCTCAGGCTCAGC
CAGGCCCCAGGAGCTGGTTGGCACATTCATTAGCAAGAAGTTGGAAAACCCGAGGATGAAGCTCAGGT
AGTTTTTTAAGCAAATCGATTCTTCTCCCGTAGGAGGTGAAACAGACGAGACCCTGTGAGCCAGAATT
ACCGTGGCAGCGTGTCCAGCCCTCAACCCGAGCCCCGAAACCTACAGGAATATTTAGACAAGTGC
AAATAGTTCTTTGAACCGGTAATACTCACTTAGTTGGGGTAAAACATTTGAGGCAGATCGGCCAAC
GTGGTTGGTGAAGTAAGGGAGACCTGTGTCCGCCAGAAGCAGTGCAGACCAGTGGCCCTGCCCGATG
CTTCCCCTGGCAACCTGGAGCAGCCACAGACAACATGGAGACCCTCTGTGCACCCAGGTCTGTCCCCT
GCCTCTTAACTCCACCACGGAAGCTGTGCACATGCTTCCGCACGAGGGCACCCGCTTGGATACTGTG
TATCCAGCACCCGAGAAGAGGCCTTACAGCAGGACCCAGGGGCCGTGAAGTGTGAGAGCCAGCAACGA
CTCTGTGGGCGCAAAGTGAAGTGCAGATTTTGGAGGCAACGTCCTTCTGGCCCCGAGCCCCGGCGT
TTATGTGTGTGCAAAACCTCAGCCACTGTTGTTAGCCTCCAGAAGAGGCGATGTCGGGCAGCAGTCA
CGGAACCAAGCTCGGCGCCCCGGTGCAGAGCCGAGGTGGCATTGGTGTCTGAGAACCTTGAGATC
CTCCAAAATGGGAGAGGAGGAGGCCCTCAGTCCCAGGCGAGTCTGGTTATGCAAGTTTATTATCCTC
ACCGCCACTGAGTCTCTGCAGAATCCTCCAGTCTTGATTGCTCAGCCTGATCACAGCTATAATCTGGCT
CAGCCCATTAACTTTTCTGTGCCTTATCGAACTCTATGAGAAGAAATCAGTCTGGAGAGAGGCTTTGG
TGGGGATAGACCTGCAGTGCAGAGTGGGCTCTCGGTGGTATTCTGGGGAGAACAATTCTTTGTCTGG
GATTCCAACAGCTCTGTCTTAGCTTGTCTCTGCCTAGCAGTGTGCCAAAGTAATTTCCACAAGGT
TCTGGTGTCTCCGAAATGGTTTCTAATCAGCCTGCTAATTTGCTGGTTCAACCACCATCCAGCCAGTTC
CAGAGAACTTGGTTCCAGAAAGTCAAAGGATCGTAAGGCAGGAAGTGTCTTCCCGGATTTGCTAATAG
CCCTGTGGAAGCACAAGTGTGGTGTAGTTCCACCTGCACACGGCACCCCTGGTGCCTGATGGTAATAAG
GCAAACCATCCAGTCAACAGGACACTTACGGAGCCCTAGACTTTACCTTAAGCAGGACTTTGGAAA
ATCTGTAAACGTGTACAACCCGTCCTTCTGACAGCCTCGTCTCAGCAAAGTGTGCCAGTCATCC
CAGACAATCTGGGCTGGGGCGCCTAACCTTGACCGTTTTATCAGCAGGTACAGAAAGATGCCAGGGC
CAGCCTGGCCTCGAAAGAGCCAGCAGGAGCTGGTGCCACCCAGCAACAGGCTTCTCCCCACAACACTAC
CCAAAGCCATGTTTTCGGAGCTGTCAAATCCAGAAAGTGTGCCCGCACAGGGACAGGCCAGAACTCAGC
ACAGTCCACAGCAAGTCTGGTCTGGTGCAGCGGGTGCAGAGTGCACCCCTCGGCTCCTCAGTCTCT
AGCGTGTCTCTGGTGTCCAGTGGCTCCGGCCAGGAGCTGTGCCGTGAGCAGCCGTGGCCACAGCCAG
TGCTGCAGTGGCCCCGGCCACCGCCTCAGGACCTGGCCGCTACTACTACTACCGGCTTTGTACGA
TGCTACAGCCTCAGTACTCTTTGCCGTACCCACCGGAGCCTGGCGCAGCTCCCTCTATTACCAGGAT
GTCTACAGCCTCTATGAGCCTCGATACAGGCCCTATGATGGTGTGCGTCTGCTTACGCCAGAACTACC
GCTATCCCAGGCCGAGCGGCCAGCTCCCAGCCAGCCACTCCTCGAAACGGCCACCTCCAGGCAAGG
ATATCCTGAAGGATACTATAGTTCCAAAAGTGGATGGAGCAGTGCAGAGGATTAATGCAAGCTATTAC
TCCAGCCAGTACGATTATGGAGATCCAGGTCACTGGGATCGTTACCACTACAGTGCATAGAGTCCAGGACC
CCCGCACCTATGACCCGAGGTAATGGTGTGATGCAGAGTATGACGCATACAGGAGAGAGCACTCTGCCTT
CGGGGACAGGCCCGAGAAACGTGACAACAACCTGGAGGTACGATCCTCGTTCACGGGGAGTTTTGACGAT
GACCCCGATCCGCACAGAGACCTTATGGGGAAGAGGTGGACCGGCAGCGTCCACAGCGAGCACTCGG
CACGGAGCCTGCACAGCGCACACAGCCTGGCCAGCCCGCAGCAGCCTCAGTCCCAGCTGCACCAGAG
TCAGATTTACAGAAGCCACAATGTGGCTGCCGTTCTACGAGGCCCGCTTCTCCAGGCTCCTTTCAC
GGCGATTTTGCCTACGGACCTACCGCAGCAATTCAGCAGTGGCCCCGGCTTCCAGAGTATGGCTACC
CTGCCGACACCGTCTGGCCTGCCATGGAGCAAGTTTCATCAAGACCAACTTCTCCTGAAAAATTTTCACT
GCCTCATGTCTGTGCCAGGTTTGGCCCTGGCGGTGAGCTTATCAAAGTATTCCCAATCTGCCTTCAGAA
GGACAGCCGGCCTTGGTGGAGGTCCACAGCATGGAGGCCCTTGTGCAGCACAGTCTGAGCAGGAGGAGA
TGCGGGCGTTCCCGGACCCCTGGCCAAAGACGACACCCATAAGGTGGATGTCATTAATTTGCACAGAA
CAAAGCTATGAAATGTTTGCAGAATGAAAATTAATTGACAAAGAGTCTGCAAGTCTTCTTGGAAATTTT
ATTGTTCTTATGCAGACAAAATGGGACCGTGGTAGGGACCGACATTGCGGAGCTTCTGTTACGAGACC
ACAGAACAGTGTGGCTTCTGGGAAGTCGCCAATGAAGCAAACCTGATTGATTTACGAATGAGGCAGT
GGAGCAGGTGGAAGAGGAGGAGTCTGGTGAAGCCAGCTCTTTCTCCTACTGGTGGTCCGGCGGCTGCC
GCCAGCTCGCTCGAGAGAGAGACCAGAGGTTACGGGAGCTGTTGCTGTATGGCCGTAAGAAGGATGCTT
TGGAGTCTGCAATGAAGAATGGCCTGTGGGGTCAAGCTCTGCTACTTGAAGTAAGTGGACAGCCGGAC
ACACGCCCCGAGTCATGACCAGGTTTGTAAACAGCCTCCAATCAACGACCCCTCTGCAGACAGTCTACCAG
CTCATGTCCGGACGGATGCCTGCCGCTCCACGTGCTGTGGAGACGAGAAATGGGGAGATTGGAGGCCGC

ACCTCGCCATGGTCTTGTCCAACCTGAACAACAACATGGACGTCGAGTCCAGGACGATGGCTACCATGGG
CGACACTCTGGCTTCAAGGGGCCTCTTGGATGCGGCCACTTCTGCTACCTCATGGCCCAGGCGGGATTT
GGTGTTTACACGAAGAAAACACAAAGCTTGTCTTAATCGGATCCAATCACAGTTTGCCATTCTTAAAGT
TCGCAACCAACGAAGCAATCCAGAGGACGGAAGCCTATGAGTACGCCAGTCCCTGGGTGCCGAGACCTG
CCCCCTGCCTAGTTTCCAGGTGTTAAGTTCATCTACTCTGCCGCTGGCGAAATGGGGCTGGCCACG
CAAGCCTCCACTACTGTGAGGCCATCGGAAGAGCATCCTGACGCAGCCGCACCTGTATTCCCCGGTGT
TGATCAGCCAGCTTGTGCAGATGGCTTCCAGTTACGACTCTTCGATCCCCAGCTGAAAGAGAAGCCAGA
AGAGGAGTCCTTGGCCGCACCCACGTGGCTGGTTACCTGCAGCAGGTGGAGCGGCAGATTAAGGAGGGG
GCTGGAGTATGGCATCAGGATGGAGCCCTCCCGCAGCAGTGTCTTGGCACTCCGAGTTCGAGATGGAGC
AGTTGGACAGGCCAGGACTCAGTCAGCCAGGAGCCCTGGGGATCGCCAACCCCTGCTGGCGGTGCCTGC
ACCGAGCCCTGAGCACTCGAGCCCGAGCGTGGCGTGTGCCCTCAGTCCGCAGACGCTCCCTGACGGC
CCATTGGCCAGTCTGCCAGAGTCCGATGTTCCAGTGCCTGCCCCCGGGGCCCTGGAGCCGGGTG
CTGGCTGTGTGACCCAGGGCTGCACTTGGCTTCTGGAGCCCTCCGGGCTGGCTCCACCTGGTGT
GCCACCTCTGCAGAAAGGAGACTTGTCCAGGAAGCCAGGAGCCAGACCCAGGGATAGTCCCGCAG
GAGGCGCCTGTTGAAACTCACTTCCGAGCTAAGCGAAGAAAATTTTGTGAAAATTTGCTAATCTGA
CCCCCTCGAGGACGGTGCAGACTCGGAGGCCCCCGAGGTGGGATCGTGCCGACTCGGTCCCACGCA
GCCACCTCTGCTCTCTCACCCGCTCCCGAAAACAAGAGACCCGGACAGGCAGCCAGAAAAGAAACGAAG
GAACCTAAGAAGGGTGAATCCTGGTCTTTTCGTTGGCTACCTGGAAAGAAAAGACAGAAGCTTATTTGC
CAGATGACAAGAACAATCGATTGTTGGGATGAAAAGAAAACCAGTGGGTGAATTTAAATGAGCCAGA
AGAGGAGAAGAAAGCCCCGCCCCACCTCCAACCTCGATGCCAAGACTGTGCAAGCTGCCCCGCCTGCC
CTCCCAGGGCCTCCTGGAGCCCCGTGAACATGTACTCTAGAAGAGCAGCAGGAACCAGAGCTCGCTACG
TTGACGTCCTGAACCAAGCGGGACCCAGCGGAGCGAGCCGGCTCTCGCTCCTGCGGACTTTGTGCTCC
ACTCGCGCACTCCCAATTCCTTCTAATTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG
CGTTCGGGACGGAATGATGGCCTCCTCGCTCTCATCCCAGATGCAGAAGAACCACAGCTTCCAGACG
GGACTGGCAGGGAAGGGCCTGCAGCAGTAGGGGCCTGGCCAATCCAGAGCCTGCCCCAGAGCCCAAGGC
TCTTGGGACCTCCCTGCTGCAGGGGGCCTCCAGCGGGGCATGCCCTTCTACAACCCTGCTCAGCTG
GCACAGGCCTGCGCCACCTCCGGGAGCTCAAGGCTAGGGAGGATTGGCCAGAGGAAGCACCTGGTGTGA
AC

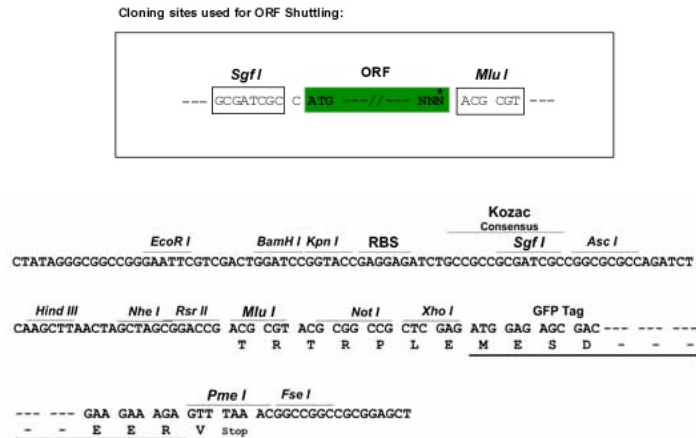
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG235387 representing NM_001276418
 Red=Cloning site Green=Tags(s)

MQPPPQTVPSGMAGPPPAGNPRSVFWASSPYRRRANNNAAVAPTTCPLQPVTDPPFAFSRQALQSTPLGSS
 SKSSPPVLQGPAPAGFSQHPGLLVPHTHARDSSQGPEPLPGPLTQPRAHASPFSGALTPSAPPGPEMNR
 SAEVGPSSSEPEVQTLPYLPHYIPGVDPETSHGGHPHGNMPLDRPLSRQNPBGVVTVAASPSLPQFGLQ
 MPGQWGPVQGGPQPSGGHRSPCEGPVPSGVPCATSVPHFPTPSILHQGPGEQHSPLVAPPAALPSDGR
 DEVSHLQSGSHLANNSDPESTRQNPRIVNHWASPELRQNPBGVKNHRPASALVNPARGDSPENRTHHP
 LGAGAGSGCAPLEADSGASGALAMFFQGGETENEENLSSEKAGLSGQADFDDFCSSPGLGRPPAPTHVGA
 GSLCQALLPGPSNEAAGDVWGDASTGVPDASGSQYENVENLEFVQNQEVLPSEPLNLDPSSPSDQFRYG
 PLPGPAVPRHGAVCHTGPADATLHTVHPDSVSSSYSSRSHGRLSGSARPQELVGTFIQQEVGKPEDEASG
 SFFKQIDSSPVGGETDETTVSQNYRGSVSQPSTSPSPKPTGIFQTSANSSFEVVKSHLVGVKPFADAN
 VVGEVRETCVRQKQCRPAAALPDASPGNLEQPPDNMETLCAPQVCPLPLNSTTEAVHMLPHAGAPPLDTV
 YPAPEKRPSARTQGPVKCESPATTLWAQSELPDFGGNVLLAPAAPALVYCAKQPQVVPPEEAMSGQQS
 RNPSSAAPVQSRGGIGASENLENPPKMGEEELQSQASSGYASLLSSPPTESLQNPVLAIQPDHSYNLA
 QPINFVSLSNSHEKNQSWREALVGDRAVSSWALGGDSGENTSLSGIPTSSVLSLSLPSVAQSNFPQG
 SGASEMVSQNPANLLVQPPSQVPENLVPESEQDKRAGSALPGFANSPAGSTSVVLVPPAHGTLVPDGNK
 ANHSSHQEDTYGALDFTLSRTLENPVVYNPSHSDSLASQQSVASHPRQSGPGAPNLDRLFYQVTKDAQG
 QPGLERAQQELVPPQQQASPPQLPKAMFSELSNPESLPAQQAQNSAQPASLVLDAGQQLPPRPQSS
 SVSLVSSGSGQAAPVSEQPWPQVPALAPGPPQDLAAYYYRPLDAYQPQYSLPYPPEPGAASLYYQD
 VYSLYEPRYRYPYDGAASAYAQNRYPEPERPSSRASHSSERPPRQGYPEGYSSKSGWSSQSDYYASY
 SSQYDYGDPGHWDYHYSARVDRPRTYDRRYWCDAYDAYRREHSFADGDRPEKRDNNWRYDRPFTGSFDD
 DPDPHRDPYGEEDRRSVHSEHSARSLHSAHSLASRRSSLSSHSHQSQIYRSHNVAAGSYEAPLPPGSFH
 GDFAYGTYRSNFSGPGFPEYGYPADTVWPAMEQVSSRPTSPEKFSVPHVCARFGPGGQLIKVIPNLPS
 GQPALVEVHSMALLQHTSEQEEMRAFPGPLAKDDTHKVDVINFQNKAMKCLQENLIDKESASLLWNF
 IVLLCRQNGTVVGTDAIAELLRLDRHTVWLPKSPNEANLIDFTNEAVEQVEEESGEAQLSFLTGGPAAA
 ASSLERETERFRELLLYGRKKDALESAMKNGLWGHALLASKMDSRTHARVMTRFANSLPINDPLQTVYQ
 LMSGMPAASTCCGDEKWDWRPHLAMVLSNLNNMMDVESRTMATMGDTLASRGLLDAAHFCYMAQAGF
 GYVTKKTKLVLIGSNHSLPFLKFATNEAIQRTEAYEYAQSLGAETCPLPSFQVFKFIYSCRLAEMGLAT
 QAFHYCEAIAKSILTQPHLYSPVLISQLVQMASQLRFLDPQLKEKPEEESLAAPTWLVLHQQVERQIKEG
 AGVWHQDQALPQQCPGTPSSEMEQLDRPGLSQPGALGIANPLAVPAPSPHSSPSVRLLPAPQTLDPG
 PLASPARVPMFVPLPPGPLEPGPGCVTPGPALGFLEPSGPGPLPPGVPLQERRHLLQEARSPDPGIVPQ
 EAPVGNLSLSEENFDGKFANLTPSRTVPDSEAPPGWDRADSGPTQPPLSLSPAPETKRPQAACKETK
 EPKKGESWFFRWLPGKKKTEAYLPDDKNKSIWDEKKNQVNLNEPEEKKAPPPPTSMPKTVQAAPPA
 LPPGPPGAPVNMYSRRAAGTRARYVDVNLNPSGTQRSEPALAPADFVAPLAPLIPSNLFPVTPVSSVRPQG
 RSGRNDGLLALSSPDAEEPQLPDGTGREGPAARGLANPEPAPEKAPGDLPAAGGPPSGAMPFYNPAQL
 AQACATSGSSRLGRIGQRKHLVLN

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:


ACCN: NM_001276418

ORF Size: 7002 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

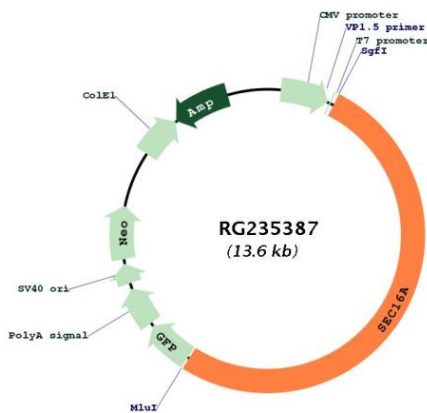
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: NM_001276418.1, NP_001263347.1
RefSeq Size: 9000 bp
RefSeq ORF: 7005 bp
Locus ID: 9919
UniProt ID: O15027
Cytogenetics: 9q34.3

Gene Summary: This gene encodes a protein that forms part of the Sec16 complex. This protein has a role in protein transport from the endoplasmic reticulum (ER) to the Golgi and mediates COPII vesicle formation at the transitional ER. Alternative splicing results in multiple transcript variants that encode different protein isoforms. [provided by RefSeq, Feb 2013]

Product images:



Circular map for RG235387