

Product datasheet for **RG210475**

SELS (SELENOS) (NM_203472) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SELS (SELENOS) (NM_203472) Human Tagged ORF Clone
Symbol: SELS
Synonyms: AD-015; ADO15; SBB18; SELS; SEPS1; VIMP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG210475 representing NM_203472
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGATCGCC

ATGGAACGCCAAGAGGAGTCTCTGTCCGCGCGCCGGCCCTGGAGACCGAGGGGCTGCGCTTCTGCACA
 CCACGGTGGGCTCCCTGCTGGCCACCTATGGCTGGTACATCGTCTTCAGCTGCATCCTTCTCTACGTGGT
 CTTTCAGAAGCTTCCGCCCGGCTAAGAGCCTTGAGGCAGAGGCAGCTGGACCGAGCTGCGGCTGCTGTG
 GAACCTGATGTTGTTGTTAAACGACAAGAAGCTTTAGCAGCTGCTCGACTGAAAAATGCAAGAAGAATAA
 ATGCGCAAGTTGAAAAGCATAAGGAAAACTGAAACAACCTGAAGAAGAAAAAGGAGACAGAAGATTGA
 AATGTGGGACAGCATGCAAGAAGGAAAAAGTTACAAAGGAAATGCAAGAAGCCCGAGGAGGAGACAGT
 CCTGGGCTTCCACTTCTGTCTGCTGAAACGGAAATCGGACAGAAAGCCTTTGCGGGGAGGAGTTATA
 ACCCGTTGTCTGGTGAAGGAGGCGGAGCTTGTCTGAGACCTGGACGAGAGGCCCGTCATCTGGCGG
 ATGAGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG210475 representing NM_203472
Red=Cloning site Green=Tags(s)

MERQEESLSARPALETEGLRFLHTTVGSLLATYGWYIVFSCILLYVVFQKLSARLRALRQRLDRAAAAV
 EPDVVVKRQEALAAARLKMQEELNAQVEKHKEKLEKLEEEKRRQK IEMWDSMQEGKSYKGNAKKPQEEDS
 PGPSTSSVLKRKSDRKLPRGGYNPLSGEGGGACSWRPGRRGPSSGG*G

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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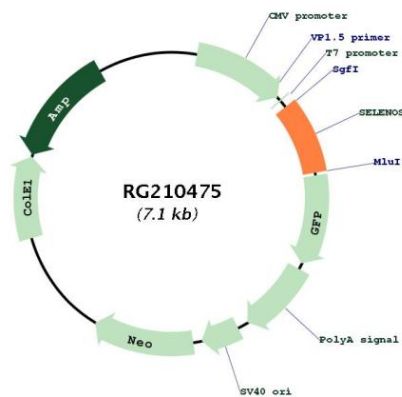
UniProt ID: [Q9BQE4](#)

Cytogenetics: 15q26.3

Protein Families: Druggable Genome

Gene Summary: This gene encodes a transmembrane protein that is localized in the endoplasmic reticulum (ER). It is involved in the degradation process of misfolded proteins in the ER, and may also have a role in inflammation control. This protein is a selenoprotein, containing the rare amino acid selenocysteine (Sec). Sec is encoded by the UGA codon, which normally signals translation termination. The 3' UTRs of selenoprotein mRNAs contain a conserved stem-loop structure, designated the Sec insertion sequence (SECIS) element, that is necessary for the recognition of UGA as a Sec codon, rather than as a stop signal. Two additional phylogenetically conserved stem-loop structures (Stem-loop 1 and Stem-loop 2) in the 3' UTR of this mRNA have been shown to function as modulators of Sec insertion. An alternatively spliced transcript variant, lacking the SECIS element and encoding a non-Sec containing shorter isoform, has been described for this gene (PMID:23614019). [provided by RefSeq, Jul 2017]

Product images:



Circular map for RG210475