

Product datasheet for **RN213574**

Selenos (NM_173120) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Selenos (NM_173120) Rat Untagged Clone
Symbol: Selenos
Synonyms: Sels; sg2; Vimp
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN213574 representing NM_173120
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCGCGGGGAGGAACCTCTGTCCGCGAGGCCGGCGCTGGAGACCGAGAGCCTGCGATTCTGCACG
TCACAGTGGGCTCCCTGCTGGCCAGCTATGGCTGGTACATCCTCTTCAGCTGCGCTTCTCTACATTGT
CATCCAGAAGCTCTCCCTGCGACTGAGGGCTTTAAGGCAGAGCCAGTGGACCAAGCTGAGGCTGTTCTG
GAGCCTGATGTTGTTGTTAAGCGACAAGAGGCTTTAGCAGCTGCTCGTTTGAGAATGCAGGAAGATCTGA
ATGCCAAGTTGAAAAACATAAGGAAAACTAAGACAGCTTGAAGAAGAGAAAAGGAGACAGAAAGATTGA
AATGTGGGACAGCATGCAAGAAGGCAGAAGTTACAAAAGAACTCAGGAAGGCCTCAGGAAGAAGATGGT
CCTGGACCTTCTACTTCATCGGTCATCCCCAAAGGAAAACTGACAAAAAGCCTTTACGGGGAGGTGGTT
ATAACCCTCTGACAGGTGAAGGGGTGGAACCTGCTCCTGGAGACCTGGACGCAGGGGCCCATCATCTGG
TGGATGAAGCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_173120
OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). The expression of this clone is not guaranteed due to the nature of selenoproteins.



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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:	<ol style="list-style-type: none">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:	<u>NM_173120.2</u> , <u>NP_775143.2</u>
RefSeq Size:	1173 bp
RefSeq ORF:	573 bp
Locus ID:	286900
UniProt ID:	<u>Q8VHV8</u>
Cytogenetics:	1q22
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 (PMID:23614019). [provided by RefSeq, Jul 2017]