

Product datasheet for RN212151

Selenoi (NM_001134754) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Selenoi (NM_001134754) Rat Untagged Clone
Symbol:	Selenoi
Synonyms:	Ept1; RGD1560938; Seli
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN212151 representing NM_001134754 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGGCTACGAATACGTGAGCCCAGAGCAGCTGGCGGGCTTGACAAGTATAAGTACAGCGCTTTGG
ATACCAACCCACTCTCTGTATGTCATGCACCCATTTTGGAACTACTAGTGAAGGATTTCCCACTTG
GCTGGCTCCCAATCTTATAACCTTTCTGGCTTATGCTGCTTGTGTTCAATTTCTACTCCTGACATAC
TTCGACCCTGACTTCTATGCTTCAGCGCCAGGTCATAAGCATGTACCTGATTGGGTCTGGATCGTTGTGG
GCATCCCAACTTCGTTGCCTACACTCTAGATGGAGTAGATGGAAAACAAGCTCGTAGAACTAATCCAG
CACCCCATAGGGGAGCTGTTTGACCACGCGCTGGACAGTTGGGCATGCGTTTATTTTCGTTGTGACTGTG
TACTCTATCTTTGGACGAGGACCGACTGGCGTCAGTGTTTTTGTCTTTACCTCCTGCTGTGGGTGGTTT
TGTTTTCTTTTATCCTGTCTCACTGGGAGAAATAAACACAGGCGTTCTTTTCTGCCATGGGGATATGA
CATTAGCCAAGTGACTATTTCTTTGTCTACATAGTGACTGCGGTTGTTGGAGTTGAGGCCTGGTATGAA
CCTTTCTGTTAATTTCTTATATAGAGACCTATTCAGTCAATGATTATTGGATGTGCATTGTGTGGA
CTTTCCAATGAGTTTATTAACCTTTTATAGAAGCTATAAAAGCAACTCTCTGAAGCACAATTCATCTA
TGAAGCCATGGTCCCCTTCTCTCCATGCTCTTCACTCTGTCGACAGTGTGGATCCTCCGGTCA
CCTTCAGATATTTAGAAATGCACCCTAGAATATTCTACTTCATGGTCGGAACAGCTTTTGCCAATATCA
CATGTCAGCTAATCGTTTGCCAAATGAGCAGCACACGGTGCCCAACTTTGAACTGGTTGCTCTCTCT
CTTCTTGGTCGTGGCAACTGTGATCGTAGGCACAACAACCTCCCGCCTTGAGAGTGTCTCTTTACACA
CTCACTGCTGCCTTCACTCTGGCTCACATCCATTATGGAGTACAAGTGGTAAAGCAGCTGAGCCGACATT
TTCAGATTTATCTTTTTTATTGAGGAAACCAACTCAGATTGACTAGGACTGGAAGAGAAGAGTATCGG
TCCG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul



[View online »](#)

ACCN:	NM_001134754
Insert Size:	1197 bp
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.
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_001134754.1</u> , <u>NP_001128226.2</u>
RefSeq Size:	2636 bp
RefSeq ORF:	1197 bp
Locus ID:	362713
Cytogenetics:	6q14
Gene Summary:	The multi-pass transmembrane protein encoded by this gene belongs to the CDP-alcohol phosphatidyltransferase class-I family. It catalyzes the transfer of phosphoethanolamine from CDP-ethanolamine to diacylglycerol to produce phosphatidylethanolamine, which is involved in the formation and maintenance of vesicular membranes, regulation of lipid metabolism, and protein folding. This protein is a selenoprotein, containing the rare selenocysteine (Sec) amino acid at its active site. 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. [provided by RefSeq, Jul 2016]