

Product datasheet for **RN214580**

Selenoo (NM_001085485) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Selenoo (NM_001085485) Rat Untagged Clone
Symbol:	Selenoo
Synonyms:	RGD1311907; Selo
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN214580 representing NM_001085485
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCTCTTTCAGGGCCGCTTCGGGGCCTCGCTCGCGTTGCCGAACCCGGCCACAGTGTGCGGCC
 TCGAGCTTCAGTCGTCCGCGCCCTGGTCCGCCTGGGCTGCTGCCATGGAGCCACGCCGCTTGGCTGGC
 GAGGCTGCGCTTCGACAACCGTGCCTGCGTGCCTGCCGTTAGAGACGCCACCGCCCGGCCGGAGGAC
 TCCTTGTCCACCCCGCTCCGGTCCGGGAGCCTGCTTCAGCCGTGCACGGCCGGCCCGCTGCGGCAGC
 CACGTCTAGTGGCGCTGTGAGAGCCGCACTGGCGCTGCTGGGGCTCGAGGTGAGGAGGAGGGAGGT
 CGAGGCCGAAGCTGCGCTCTTCTCAGCGGCAATGCGCTGCTGCCGGCACCCGAGCCCGCCGCGCACTGC
 TACTGTGGACACCAGTTCGGTCAGTTCGCTGGCAGTTGGGCGACGGTCCCGCCATGTACCTGGGCGAGG
 TGTGCACAGCGGCCGGCAGCGCTGGGAGCTGCAGCTCAAAGGCCCGGCCCCACGGCCTTCTCCAGACA
 AGCTGATGGTCGAAAGTCTGCGGTCAAGCATCCGTGAGTTCCTGTGCAGCGAAGCCATGTTTCACCTG
 GGGATCCCCACCACGAGGCCGGGGCCTGCGTTACGTCTGAGTCTACAGTGTGAGAGCTGTTCTATG
 ATGGTAATCCAAAATATGAAAAGTGCACGGTGTGTTGCGTATAGCTCCCACTTTTATAAGATTCGGCTC
 CTTTGAATTTTTAAGCCTCCTGATGAGCTCACAGGGCGTGCAGGCCCTAGTGTAGGACGAAATGATATC
 CGAGTGCAGATGCTTGACTATGTCATCAGCTCTTCTACCTGAAATCCAGGCTGCCACACCTGCGACA
 CAGACAACATACAGAGGAACGCTGCCTTTTTCAGAGAGGTGACAAGGCCAACAGCACGGATGGTGGCTGA
 ATGGCAGTGTGTCGGCTTTTCCCATGGAGTGTCAACACTGACAACATGAGCATCGTGGGCTCACGATC
 GACTATGGACCTTTGGCTTCTGGATAGGTATGACCCGACCATGTGTGTAACGCCTCTGACAATGCTG
 GCGCTACACATACAGTAAGCAGCCACAGGTGTGCAAGTGAACCTGCAGAACTAGTGAAGCCCTGGA
 GCCTGAGCTGCCGCTTGTGCTAGCTGAGGCCATTCTCAAAGAGGAGTTTGACACAGAGTTCCAAAGGCAC
 TATCTACAGAAGATGCGTAAGAAGCTGGCCCTGTTTCGCGTGGAGAAGGAAGATGAGACACTTGTGGCCA
 AACTTCTAGAGACTATGCATCAGACTGGCGCTGACTTCACTAACACCTTCTGTGTTCTGAGCTCCTTCCC
 GGCTGAACCGTACAGACAGCAGAGTTCCTGACCCAGCTGACCTCCCAGTGTGCCTCTCTGGAAGAGCTA
 AAGCTTGCTTACAGACCCAGATGGATCCCGGCAGCTCTCTATGATGCTGATGCTGGCACAGTGAACCC
 CACAGCTCTTGGCACTATTGGCACTCAAGCAAATGTCACAAAGGAGCTGGAACGTGTGGAGCATCAGTC
 ACGGCTGGAACAGCTGAGCCCTCTGAACTGCAGAGCAAGAACAGAGACCACTGGGAAACCTGGCTACAG
 GAATACAGAGAGCGTCTGGACAAGGAGAAGGAGGTGTCGGAGACATTGCTGCCTGGCAGGCAGAACGTG
 TACGCATCATGATGCCAACAACCCCAAGTACGTCCTAAGGAACTATATTGCACAGAAAGCCATTGAAGC
 TGCAGAAAATGGAGACTTTTCAGAGGTGCGACGTGTCCTGAAGCTGCTAGAGTCTCCTTACCACAGTGAA
 GAGGAGGCCACAGGCCCTGAGGCAGTGGCGAGGACCACTGACGAGCAGTCTTCTACAGTAGCAGGCCCTC
 CACTCTGGGCAGCAGAACTCTGCGTAACATGATCCTCA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_001085485

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:

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_001085485.1](#), [NP_001078954.1](#)

RefSeq Size: 2481 bp

RefSeq ORF: 2001 bp

Locus ID: 315216

Cytogenetics: 7q34

Gene Summary: This gene encodes a selenoprotein that is localized to the mitochondria. It is the largest mammalian 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. The exact function of this selenoprotein is not known, but it is thought to have redox activity. [provided by RefSeq, Jan 2017]