

Product datasheet for **RN200391**

Selenop (NM_019192) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Selenop (NM_019192) Rat Untagged Clone
Symbol: Selenop
Synonyms: Sepp1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN200391 representing NM_019192
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGAGAAGCCTAGGGCTTGGCCTGGCTCTCTGTCTCCTCCCCTATGGAGGAGCAGAGAGCCAAGGCC
AAAGCCCTGCTTGTAAAGCAAGCTCCACCCTGGAACATAGGAGATCAAAATCCAATGCTAACTCCGAGGG
CACAGTGACAGTGGTTGCTCTTCAAGCCAGCTGATACCTGTGCCTTTCGAGGCATCCAGATTGGAA
GACCTGGGAATAAACTAGAGAACCAAGGATATTTAACATCTCCTATATTGTTGTTAATCATCAAGGAT
CTCCTTCCCAATTAACATGCACATCTTAAAAAGCAGGTGTCAGATCACATTGCTGTTTACAGACAAGA
TGAACATCAAACAGATGTCTGGACTCTTAAATGGAAACAAAGATGACTTCTCATATATGACAGATGT
GGCCGTCTTGTGTATCACCTTGGTTTGGCCACTCCTTCCCTCACTTCCCGTATGTTGAAGAAGCCATCA
AGATCGCTTACTGTGAGAAGAGGTGTGGAACTGCTTTTCACGAGTCTTGAAGATGAAGCCTTCTGTAA
AAACGTGTCTCGGCTACTGCAAGTAAACCACAGAGCCCTCAGAGGAGCATAACCACCACAAGCACCAT
GACAAACATGGGCATGAGCATCTTGGGAGCAGTAAGCCTTCAGAGAATCAGCAACCAGGGGCATTAGATG
TTGAGACAAGTCTTCTCCTTCAGGCTTGCAACCACCACCACCACCATAAGCACAAGGGCCAGCACAG
GCAGGGTCACTTAGAGAGCTGAGACATGGGGCAAGTGAAGGCTTCAACTTTCCTTGGCCAGAGGAAAG
CTCTGACGAAGGGGATGCATAAACAGCTCCTGTGTAAGTTATCTGAGGAGTCTGGGGCAGCTACCAAGTA
GCTGCTGCTGCCACTGCCGACACCTCATATTTGAGAAGTCAGGATCTGCAATCACTTGACAGTGTGCCGA
AAACCTCCCATCCTTGTGTAGCTGACAGGGGCTTTTCGCGGAGGAGAAAGTCATTGAATCCTGTCAATGT
AGATCACCTCCAGCTGCCTGACACAGTCAGCATGTAAGCCCCACAGAAGCCAGCCCCAACCTGAAGCTGAA
ATAATAAGACCAAGAAGTAAAAATGAAATTTGAAC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_019192



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Insert Size:	1158 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:	NM_019192.2 , NP_062065.2
RefSeq Size:	2043 bp
RefSeq ORF:	1158 bp
Locus ID:	29360
UniProt ID:	P25236
Cytogenetics:	2q16
Gene Summary:	<p>This gene encodes a selenoprotein that is predominantly expressed in the liver and secreted into the plasma. This selenoprotein is unique in that it contains multiple selenocysteine (Sec) residues per polypeptide (10 in rat), and accounts for most of the selenium in plasma. It has been implicated as an extracellular antioxidant, and in the transport of selenium to extra-hepatic tissues via apolipoprotein E receptor-2 (apoER2). Mice lacking this gene exhibit neurological dysfunction, suggesting its importance in normal brain function. 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 mRNA for this selenoprotein contains two SECIS elements. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Feb 2017]</p> <p>Transcript Variant: This variant (1, also known as Sepp1a) represents the predominant transcript. Variants 1 and 2 encode the same protein containing 10 selenocysteine residues.</p>