

Product datasheet for **MC200342**

Selenop (NM_009155) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Selenop (NM_009155) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Selenop
Synonyms:	AU018766; D15Ucl; D15Ucla1; s; Se; Se-P; selp; Sepp1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC001991 sequence for NM_009155
 CCCACGCGTCCGTCTAACTAGAGCAAAGAGACAGGACGAAGCTAGTCCGAAGGGGTTGCGACAACCTCAG
 CAATGTGGAGAAGCCTAGGGCTTGCCCTGGCTCTCTGTCTCCTCCCCTATGGAGGAGCAGAGAGCCAAGG
 CCAAAGCTCTGCTTGTACAAAGCCCCGGAGTGGTACATAGGAGATCAAATCCAATGCTAAACTCAGAG
 GGCAAAGTGACAGTGGTTGCTCTTCTCAAGCCAGCTGATACTTGTGTCTTCTGCAGGCATCCAGATTGG
 AAGACCTGCGCATAAACTAGAAAGCCAAGGATATTTAACATCTTTACATTGTTGTTAACCATCAAGG
 ATCTCCTTCCCAATTAACACTCACATCTTAAAAAGCAGGTGTCAGAACACATCGCAGTGTACAGACAA
 GAAGAAGATGGCATAGATGTCTGGACTCTTAAATGGAAACAAAGATGACTTCCTCATCTATGACAGAT
 GTGGCCGTCTTGTGTATCACCTTGGTTTGCCTTACTCCTTCTCACATTCCCATATGTTGAAGAAGCCAT
 TAAGATCGCTTACTGTGAGGAGAGGTGCGGAAACTGCAATCTCACGAGTCTTGAAGATGAAGACTTCTGT
 AAAAATGTGACCTCAGCTACTGCCAATAAACTGCGGAGCCCTCAGAGGCTCATAGCCACCACAAACACC
 ACAACAAACATGGGCAGGAGCATCTTGGCAGCAGTAAGCCTTCAGAGAATCAGCAACCAGGGCCATCAGA
 GACGACTCTGCCTCCTCAGGCTTGACCACCACCACAGGCATAGGGGCCAGCACAGGCAGGGTCACTTA
 GAGAGCTGAGACACCACAGCAAGTGAAGGCTTGACCTTTCACTTGCCCAGAGGAAGCTCTGACGAAGGG
 GGTGCATCAACCAGCTCCTGTGTAAGTTGTCTAAGGAGTCCGAGGCAGCCCCAGCAGCTGCTGCTGTCA
 CTGCCGCCACCTCATATTTGAGAAGTCAAGGCTGCAATTGCTTGACAGTGTGCGGAAAACCTCCCATCC
 TTATGTAGCTGACAGGGGCTTTTCGCGGAGGAGAAAGTCACTGAATCCTGTCAAGTGTAGGTCACCTCCAG
 CTGCCTGACAAAATCAGCCCATGAACCCCATGGAAGCCAACCCCAACTGAAGCTGAGATAATCAGACCAG
 GAAGTGAAAATGACATTCAACTAAATTTAAAAACAAGGCATACCTCTCCCAACTCAGTCTAAAGAC
 ACAATTTCAATTTGAGAAATGTTTACAGCCATTTAATTAATCAGTGAACAAAAGTCATAGAAATTTGGAT
 TTGTGCAAATGTAGAGAAATCTACCATATTGGCTTCCAAAATTTAAAAATTTTATGCCACAGAACATTTT
 ATCCAAATCAGATTTGTACAATAGGCACCTGAAAAGTACTGCAGCCTTTGGTTAATATGTCTTTCTTT
 TTCCTTTTCCAGTGTCTAGTTACATTAATGAGAACAGAAACATAAACTATGACCTAGGGGTTTCTGTT
 GGATAGCTTGTAATTAAGAACGGAGAAAGAACAACAAAGACATATTTTCCAGTTTTTTTTTTCTTTACTT
 AAATCTGAAAACAACAGAACTTTGTCTTCTACTCTTACATTCTAAACCGATGAAATCTTTAACAGAT
 TACACTTTAAATATCTACTCATTTTTCTCTCTCAGAGTCTAGCTTGAGTTGCACTGCATGTATCTGT
 GCATCTTGTCTCTTCAATTAATGCTGTACTGTTCTGCTGAGCTCTGAGGGACTATCTTGAGAGATGTAA
 TGGAAAGGAAAGCGTGGTGTAACTGCGTACTGCTTAAGACAGTATTTCCATAATCAATGATGGTTTCAT
 AGAGAACTAAGTCTATGAACCTGACCTTTTTATGGCTAATACGACTAAGCAAGAATGGAGTACAGAA
 TTAAGTGGCTACAGTACACACTATCAAATAAATGCAATTTTAAACCTTTAAAAAAAAAAAAAAAAAAAA A

Restriction Sites: RsrII-NotI

ACCN: NM_009155

Insert Size: 1143 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).

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: [BC001991](#), [AAH01991](#)

RefSeq Size: 2031 bp

RefSeq ORF: 1143 bp

Locus ID: 20363

UniProt ID: [P70274](#)

Cytogenetics: 15 1.84 cM

Gene Summary: 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 mouse), 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 differing in 5' non-coding region have been described for this gene. Expression of these variants varies in different tissues and developmental stages (PMID:23064117). [provided by RefSeq, Feb 2017]
Transcript Variant: This variant (1, also known as Sepp1a) represents the predominant transcript. Variants 1, 2 and 3 encode the same protein containing 10 selenocysteine residues.