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Product datasheet for SC316200

SEPP1 (SELENOP) (NM_001093726) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEPP1 (SELENOP) (NM_001093726) Human Untagged Clone
Symbol:	SEPP1
Synonyms:	SELP; SeP; SEPP; SEPP1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

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>OriGene sequence for NM_001093726 edited
CAAAGAGAAAGGAAGCAGGCCCGTTGGAAGTGGTTGTCTACTTGCAATATGTGCTCTGGG
CTGGACGCGGTGGCTCACGCTTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGCGGATC
ACGAGGACAACCCCAGCAATGTGGAGAAGCCTGGGGCTTGCCCTGGCTCTCTGTCTCCTC
CCATCGGGAGGAACAGAGAGCCAGGACCAAAGCTCCTTATGTAAGCAACCCCCAGCCTGG
AGCATAAGAGATCAAGATCCAATGCTAAACTCCAATGGTTCAGTGACTGTGGTTGCTCTT
CTTCAAGCCAGCTGATACCTGTGCATACTGCAGGCATCTAAATTAGAAGACCTGCGAGTA
AAACTGAAGAAAGAAGGATATTCTAATATTTCTTATATTGTTGTTAATCATCAAGGAATC
TCTTCTCGATTAAAATACACACATCTTAAGAATAAGGTTTCAGAGCATATTCCTGTTTAT
CAACAAGAAGAAAACCAAACAGATGTCTGGACTCTTTTAAATGGAAGCAAAGATGACTTC
CTCATATATGATAGATGTGGCCGTCTTGTATATCATCTTGGTTTGCCTTTTTCCTTCCTA
ACTTTCCCATATGTAGAAGAAGCCATTAAGATTGCTTACTGTGAAAAGAAATGTGGAAAC
TGCTCTCTCACGACTCTCAAAGATGAAGACTTTTGTAAACGTGTATCTTTGGCTACTGTG
GATAAAACAGTTGAAACTCCATCGCCTCATTACCATCATGAGCATCATCACAATCATGGA
CATCAGCACCTTGGCAGCAGTGAGCTTTCAGAGAATCAGCAACCAGGAGCACCAAATGCT
CCTACTCATCCTGCTCCTCCAGGCCTTCATCACCACCATAAGCACAAGGGTCAGCATAGG
CAGGGTCACCCAGAGAACCGAGATATGCCAGCAAGTGAAGATTTACAAGATTTACAAAAG
AAGCTCTGTCGAAAGAGATGTATAAATCAATTACTCTGTAAATTGCCCACAGATTCAGAG
TTGGCTCCTAGGAGCTGATGCTGCCATTGTCGACATCTGATATTTGAAAAAACAGGGTCT
GCAATCACCTGACAGTGTAAAGAAAACCTCCCATCTTTATGTAGCTGACAGGGACTTCGG
GCAGAGGAGAACATAACTGAATCTTGTCAGTGACGTTTGCCTCCAGCTGCCTGACAAATA
AGTCAGCAGCTTATACCCACAGAAGCCAGTGCCAGTTGACGCTGAAAGAATCAGGCAAAA
AAGTGAGAATGACCTTCAAACTAAATATTTAAAATAGAACATACTCCCCAATTTAGTCTA
GACACAATTTCATTTCCAGCATTTTTATAAACTACCAAATTAGTGAACCAAAAATAGAAA
TTAGATTTGTGCAAACATGGAGAAATCTACTGAATTGGCTTCCAGATTTTAAATTTTATG
TCATAGAAATATTGACTCAAACCATATTTTTTATGATGGAGCAACTGAAAGGTGATTGCA
GCTTTTGGTTAATATGTCTTTTTTTTTCTTTTTCCAGTGTTCTATTTGCTTTAATGAGAA
TAGAAACGTAAACTATGACCTAGGGGTTTCTGTTGGATAATTAGCAGTTTAGAATGGAGG
AAGAACAACAAAGACATGCTTTCCATTTTTTTCTTTACTTATCTCTCAAAACAATATTAC
TTTGTCTTTTCAATCTTCTACTTTTAACTAATAAAATAAGTGGATTTTGTATTTTAAGAT
CCAGAAATACTTAACACGTGAATATTTTGCTAAAAAAGCATATATAACTATTTTAAATAT
CCATTTATCTTTTGTATATCTAAGACTCATCCTGATTTTTACTATCACACATGAATAAAG
CCTTTGTATCTTTCTTTCTCTAATGTTGTATCATACTCTTCTAAAACTTGAGTGGCTGTC
TTAAAAGATATAAGGGGAAAGATAATATTGTCTGTCTCTATATTGCTTAGTAAGTATTTC
CATAGTCAATGATGGTTTAATAGGTAAACCAAACCCTATAAACCTGACCTCCTTTATGGT
TAATACTATTTAAGCAAGAATGCAGTACAGAATTGGATACAGTACGGATTTGTCCAAATA
AATTCAATAAAAACCTTAAAAAAAAAAAAAAAAAAAA
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Restriction Sites: Please inquire

ACCN: NM_001093726

Insert Size: 2000 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.

OTI Annotation: This clone encodes a selenoprotein containing the rare amino acid selenocysteine (Sec). Sec is encoded by UGA codon, which normally signals translational termination. 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_001093726.1, NP_001087195.1
RefSeq Size:	2252 bp
Locus ID:	6414
UniProt ID:	P49908
Cytogenetics:	5p12
Protein Families:	Secreted Protein
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 human), 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. The use of alternative polyadenylation sites, one located in between the two SECIS elements, results in two populations of mRNAs containing either both (predominant) or just the upstream SECIS element (PMID:27881738). Alternatively spliced transcript variants have also been found for this gene. [provided by RefSeq, Oct 2018] Transcript Variant: This variant (3, also known as Sepp1b) contains an additional 5' coding exon compared to variant 1. It initiates translation from an in-frame, upstream start codon, which results in an isoform (2) with a longer and distinct N-terminus compared to isoform 1.