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Product datasheet for SC211082

SEPP1 (SELENOP) (NM_001085486) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	SEPP1 (SELENOP) (NM_001085486) Human 3' UTR Clone
Symbol:	SEPP1
Synonyms:	SELP; SeP; SEPP; SEPP1
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_001085486
Insert Size:	870 bp
Insert Sequence:	>SC211082 3'UTR clone of NM_001085486 The sequence shown below is from the reference sequence of NM_001085486. The complete sequence of this clone may contain minor differences, such as SNPs. Blue=Stop Codon Red=Cloning site GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC GCAAAAAAGTGAGAATGACCTTCAAACTAAATATTTAAAATAGGACATACTCCCCAATTTAGTCTAGAC ACAATTTCATTTCCAGCATTTTTATAAACTACCAAATTAGTGAACCAAAAATAGAAATTAGATTTGTGC AAACATGGAGAAATCTACTGAATTGGCTTCCAGATTTTAAATTTTATGTCATAGAAATATTGACTCAAA CCATATTTTTTATGATGGAGCAACTGAAAGGTGATTGCAGCTTTTGGTTAATATGTCTTTTTTTTTCTT TTTCCAGTGTTCTATTTGCTTTAATGAGAATAGAAACGTAAACTATGACCTAGGGGTTTCTGTTGGATA ATTAGCAGTTTAGAATGGAGGAAGAACAACAAAGACATGCTTTCCATTTTTTTCTTTACTTATCTCTCA AAACAATATTACTTTGTCTTTTCAATCTTCTACTTTTAACTAATAAAATAAGTGGATTTTGTATTTTAA GATCCAGAAATACTTAACACGTGAATATTTTGCTAAAAAAGCATATATAACTATTTTAAATATCCATTT ATCTTTTGTATATCTAAGACTCATCCTGATTTTTACTATCACACATGAATAAAGCCTTTGTATCTTTCT TTCTCTAATGTTGTATCATACTCTTCTAAAACTTGAGTGGCTGTCTTAAAAGATATAAGGGGAAAGATA ATATTGTCTGTCTCTATATTGCTTAGTAAGTATTTCCATAGTCAATGATGGTTTAATAGGTAAACCAAA CCCTATAAACCTGACCTCCTTTATGGTTAATACTATTAAGCAAGAATGCAGTACAGAATTGGATACAGT ACGGATTTGTCCAAATAAATTCAATAAAAACCTTAAAGCTGA ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA CGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGG
Restriction Sites:	SgfI-MluI

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OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: NM_001085486.3

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]

Locus ID: 6414

MW: 34.6