

#### OriGene Technologies, Inc.

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# Product datasheet for RG218097

### SEPP1 (SELENOP) (NM\_001085486) Human Tagged ORF Clone

### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SEPP1 (SELENOP) (NM_001085486) Human Tagged ORF Clone
Symbol:	SEPP1
Synonyms:	SELP; SeP; SEPP; SEPP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RG218097 representing NM_001085486 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGTGGAGAAGCCTGGGGCTTGCCCTGGCTCTCTGTCTCCCCATCGGGAGGAACAGAGAGCCAGGACC

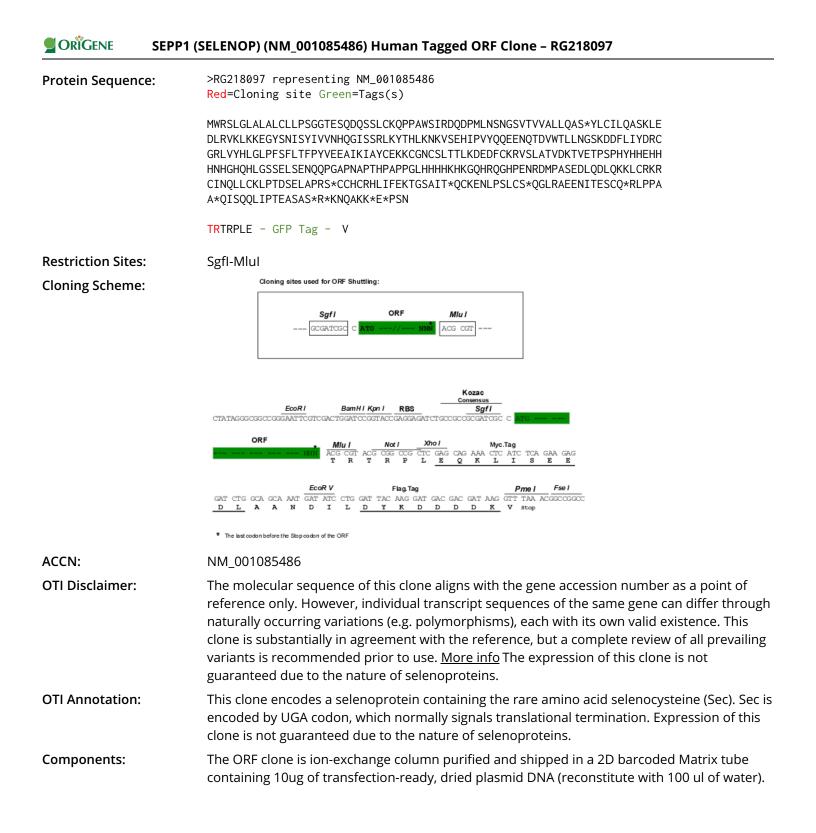
CUIGGGGCTTGCCCTGGCTCTCTGTCTCCCCATCGGGAGGAACAGAGAGCCAGGACC AAAGCTCCTTATGTAAGCAACCCCCAGCCTGGAGCATAAGAGATCAAGATCCAATGCTAAACTCCAATGG TTCAGTGACTGTGGTTGCTCTTCTTCAAGCCAGCTGATACCTGTGCATACTGCAGGCATCTAAATTAGAA GACCTGCGAGTAAAACTGAAGAAAGAAGGATATTCTAATATTTCTTATATTGTTGTTAATCATCAAGGAA TCTCTTCTCGATTAAAATACACACATCTTAAGAATAAGGTTTCAGAGCATATTCCTGTTTATCAACAAGA AGAAAACCAAACAGATGTCTGGACTCTTTTAAATGGAAGCAAAGATGACTTCCTCATATATGATAGATGT AGATTGCTTACTGTGAAAAGAAATGTGGAAACTGCTCTCTCACGACTCTCAAAGATGAAGACTTTTGTAA ACGTGTATCTTTGGCTACTGTGGATAAAACAGTTGAAACTCCATCGCCTCATTACCATCATGAGCATCAT CACAATCATGGACATCAGCACCTTGGCAGCAGTGAGCTTTCAGAGAATCAGCAACCAGGAGCACCAAATG CTCCTACTCATCCTGCTCCTCCAGGCCTTCATCACCACCATAAGCACAAGGGTCAGCATAGGCAGGGTCA CCCAGAGAACCGAGATATGCCAGCAAGTGAAGATTTACAAGATTTACAAAAGAAGCTCTGTCGAAAGAGA TGTATAAATCAATTACTCTGTAAATTGCCCACAGATTCAGAGTTGGCTCCTAGGAGCTGATGCTGCCATT GTCGACATCTGATATTTGAAAAAACAGGGTCTGCAATCACCTGACAGTGTAAAGAAAACCTCCCATCTTT ATGTAGCTGACAGGGACTTCGGGCAGAGGAGAACATAACTGAATCTTGTCAGTGACGTTTGCCTCCAGCT GCCTGACAAATAAGTCAGCAGCTTATACCCACAGAAGCCAGTGCCAGTTGACGCTGAAAGAATCAGGCAA AAAAGTGAGAATGACCTTCAAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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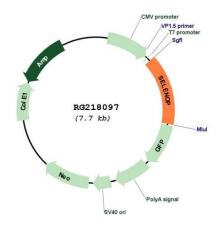
# SEPP1 (SELENOP) (NM\_001085486) Human Tagged ORF Clone - RG218097

Reconstitution Method:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
RefSeq:	<u>NM 001085486.2</u>
RefSeq Size:	2193 bp
RefSeq ORF:	1146 bp
Locus ID:	6414
UniProt ID:	<u>P49908</u>
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 extrahepatic 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, results in two populations of mRNAs contains in a cited in between the two SECIS elements, results in two populations of mRNAs contains in the selenoprotein contains the secience of alternative polyadenylation sites, one located in between the two SECIS elements.

of alternative polyadenylation sites, one located in between the two SECIS elements, results i 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]

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# **Product images:**



Circular map for RG218097

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