

Product datasheet for **SC305647**

EPT1 (SELENOI) (NM_033505) Human Untagged Clone

Product data:

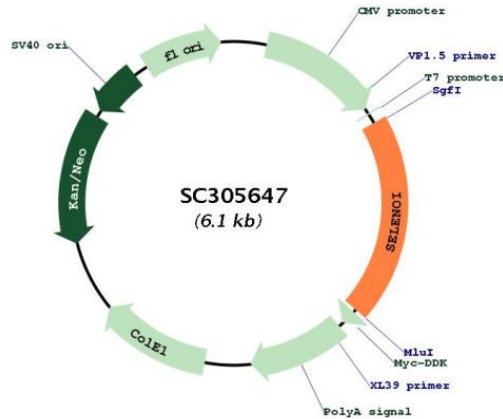
Product Type: Expression Plasmids
Product Name: EPT1 (SELENOI) (NM_033505) Human Untagged Clone
Symbol: SELENOI
Synonyms: EPT1; SELI; SEPI; SPG81
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >SC305647 representing NM_033505.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCTGGCTACGAATACGTGAGCCCGGAGCAGCTGGCTGGCTTTGATAAGTACAAGTACAGTGCTGTG
GATACCAATCCACTTTCTCTGTATGTCATGCATCCATTCTGGAACACTATAGTAAAGGATTTTCTACT
TGGCTGGCGCCCAATCTGATAACTTTTTCTGGCTTTCTGCTGGTTCGATTTCAATTTTCTGCTAATGGCA
TACTTTGATCTGACTTTTATGCCTCAGCACCAGGTCACAAGCACGTGCCTGACTGGGTTGGATTGTA
GTGGGCATCCTCAACTTCGTAGCCTACACTCTAGATGGTGTGGACGAAAGCAAGCTCGCAGAACCAAT
CTAGCACTCCCTTAGGGGAGCTTTTTGATCATGGCCTGGATAGTTGGTCATGTGTTACTTTGTTGTG
ACTGTTTATCCATCTTTGGAAGAGGATCAACTGGTGTCAAGTGTGTTTGTCTTTATCTCCTGCTATGG
GTAGTTTTGTTTTCTTTCATCCTGTCCCACTGGGAAAAGTATAACACAGGGATTCTTTTCTGCCATGG
GGATATGACATTAGCCAGGTGACTATTTCTTTGTCTACATAGTGACTGCAGTTGTGGGAGTTGAGGCC
TGGTATGAACCTTCTGTTTAAATTTCTTATATAGAGACCTATTCAGTCAATGATTATTGGTTGTGCA
TTATGTGTGACTTTCGAATGAGTTTAAACTTTTTCAGAAGCTATAAAAATAACACCTTGAACCTC
AATTCAGTCTATGAAGCTATGGTCCCTTATTTCTCCATGCTTGCTGTTCAATTTGTCTACAGCGTGG
ATCCTTTGGTCACCTTCAGATATTTAGAGCTACATCCTAGAGTATTCTACTTTATGTTGGAACAGCT
TTTGCCAAACAGTACATGTCAGCTGATTGTTGCCAAATGAGTAGTACCCGGTGTCCAACCTTGAATTGG
TTGCTGGTTCTCTCTTCTTGGTTGCTTAGTGGTAAACCTAGGAGTAGCCTCTTACGTTGAGAGCATT
CTCCTGTATACATTAACAACTGCTTTTACTCTGGCCACATCCATTATGGAGTACGAGTGGTAAAGCAG
CTGAGCAGCCATTTTTCAGATTTACCCCTTCTCATTGAGGAAACCAAACTCAGATTGACTAGGAATGGAA
GAAAAGAATATTGGCCTGTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-Mlul



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Plasmid Map:


ACCN: NM_033505

Insert Size: 1194 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_033505.3](#)

RefSeq Size: 8143 bp

RefSeq ORF: 1194 bp

Locus ID: 85465
UniProt ID: [Q9C0D9](#)
Cytogenetics: 2p23.3
MW: 45.2 kDa

Gene Summary: The multi-pass transmembrane protein encoded by this gene belongs to the CDP-alcohol phosphatidyltransferase class-I family. It catalyzes the transfer of phosphoethanolamine from CDP-ethanolamine to diacylglycerol to produce phosphatidylethanolamine, which is involved in the formation and maintenance of vesicular membranes, regulation of lipid metabolism, and protein folding. This protein is a selenoprotein, containing the rare selenocysteine (Sec) amino acid at its active site. 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. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jul 2016]
Transcript Variant: This variant (1) represents the selenoprotein-encoding transcript.
Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.