

## Product datasheet for **RG216434**

### **EPT1 (SELENOI) (NM\_033505) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** EPT1 (SELENOI) (NM\_033505) Human Tagged ORF Clone  
**Symbol:** EPT1  
**Synonyms:** EPT1; SELI; SEPI; SPG81  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG216434 representing NM\_033505  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGATCGCC

ATGGCTGGCTACGAATACGTGAGCCCGGAGCAGCTGGCTGGCTTTGATAAGTACAAGTACAGTGCTGTGG  
 ATACCAATCCACTTTCTCTGTATGTCATGCATCCATTCTGGAACACTATAGTAAAGGATTTCTACTTGG  
 GCTGGCGCCCAATCTGATAACTTTTTCTGGCTTTCTGCTGGTTCGATTTCAATTTCTGCTAATGGCATA  
 TTTGATCCTGACTTTTATGCCTCAGCACCAGGTCACAAGCACGTGCCTGACTGGGTTTGGATTGTAGTGG  
 GCATCCCTCAACTCGTAGCCTACACTTAGATGGTGTGGACGGAAGCAAGCTCGCAGAACCAATTCTAG  
 CACTCCCTTAGGGGAGCTTTTTGATCATGGCCTGGATAGTTGGTCATGTGTTACTTTGTTGTGACTGTT  
 TATTCCATCTTTGGAAGAGGATCAACTGGTGTCAGTGTTTTTGTCTTTATCTCCTGCTATGGGTAGTTT  
 TGTTTTCTTTTCATCCTGTCCCCTGGGAAAAGTATAACACAGGGATTCTTTTCTGCCATGGGGATATGA  
 CATTAGCCAGGTGACTATTTCTTTGTCTACATAGTGACTGCAGTTGTGGGAGTTGAGGCCTGGTATGAA  
 CCTTTCTGTTAATTTCTTATATAGAGACCTATTCAGTCAATGATTATTGGTTGTGCATTATGTGTGA  
 CTCTTCCAATGAGTTTATTAACCTTTTTCAGAAGCTATAAAAATAACACCTTGAAACTCAATTCAGTCTA  
 TGAAGCTATGGTCCCTATTTTCTCCATGCTTGCTGTTCAATTTGTCTACAGCGTGGATCCTTTGGTCA  
 CCTTCAGATATTTAGAGCTACATCCTAGAGTATTCTACTTTATGTTGGAACAGCTTTTGCCAACAGTA  
 CATGTCAGCTGATTGTTTGCCAAATGAGTAGTACCCGGTGTCCAACCTTTGAATTGGTTGCTGTTCTCT  
 CTCTTGTTGTCTTAGTGGTAAACCTAGGAGTAGCCTTTACGTTGAGAGCATTCTCCTGTATACATTA  
 ACAACTGCTTTTACTCTGGCCACATCCATTATGGAGTACGAGTGGTAAAGCAGCTGAGCAGCCATTTTC  
 AGATTTACCCCTTCTCATTGAGGAAACCAACTCAGATTGACTAGGAATGGAAGAAAAGAATATTGGCCT  
 G

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG216434 representing NM\_033505  
Red=Cloning site Green=Tags(s)

MAGYEYVSPEQLAGFDKYKYSAVDTNPLSLYVMHPFWNTIVKVFPTWLAPNLITFSGFLLVVFNFLLMAY  
 FDPDFYASAPGHKHVPDWWIVVIGILNFVAYTLDGVDGKQARRTNSSTPLGELFDHGLDSWSCVYFVVTV  
 YSIFGRGSTGVSVFVLYLLLWVLFVFSILSHWEKYNTGILFLPWGYDISQVTISFVYIVTAVVGVVEAWYE  
 PFLFNFLYRDLFTAMIIGCALCVTLPMSELLNFRRSYKNNTLKLNSVYEAAMVPLFSPCLLFIILSTAWILWS  
 PSDILELHPRVYFYMVGTAFANSTCQLIVCQMSSTRCPNLNLLVPLFLVVLVNLGVASYVESILLYTL  
 TTAFTLAHIHYGVRVVKQLSSHFQIYPFSLRKPNSD\*LGMEEKNIGL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_033505

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#) 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\\_033505.4](#)

**RefSeq Size:** 8091 bp

**RefSeq ORF:** 1194 bp

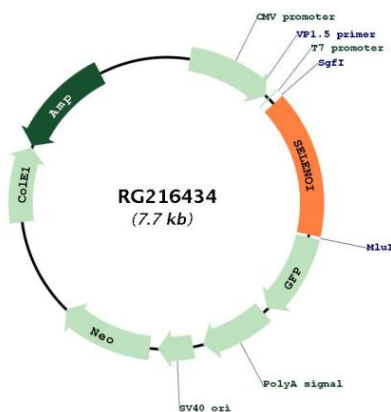
**Locus ID:** 85465

**UniProt ID:** [Q9C0D9](#)

**Cytogenetics:** 2p23.3

**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]

### Product images:



Circular map for RG216434