

## Product datasheet for RC205098

### SEP15 (NM\_004261) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SEP15 (NM\_004261) Human Tagged ORF Clone  
**Symbol:** SEP15 (SEP15)  
**Synonyms:** SEP15  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC205098 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGTAGCGATGGCGGCTGGGCCGAGTGGGTGTCTGGTGCCGGCGTTGGGCTACGGTTGTTGTTGGCGA  
 CTGTGCTTCAAGCGGTGTCTGCTTTGGGGCAGAGTTTTCATCGGAGGCATGCAGAGAGTTAGGCTTTTC  
 TAGCAACTTGCTTGCAGCTCTTGATCTTCTCGGACAGTTCAACCTGCTTCAGCTGGATCCTGATTGC  
 AGAGGATGCTGTCAAGGAGGAAGCACAATTTGAAACCAAAAAGCTGTATGCAGGAGCTATTCTTGAAGTTT  
 GTGGATGAAAATTGGGAAGGTTCCCTCAAGTCCAAGCTTTGTTAGGAGTGATAAACCAAACTGTTTCAG  
 AGGACTGCAAAATCAAGTATGTCCGTGGTTCAGACCCTGTATTAAGCTTTTGGACGACAATGGGAACATT  
 GCTGAAGAACTGAGCATTCTCAAATGGAACACAGACAGTGTAGAAGAATTCCTGAGTGAAAAGTTGGAAC  
 GCATA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC205098 protein sequence  
 Red=Cloning site Green=Tags(s)

MVAMAAGPSGCLVPAFGLRLLLATVLAQVSAFGAEFSSEACRELGFSSNLLCSSCDLLGQFNLLQLDPDC  
 RGCCQEEAQFETKKLYAGAILVCG\*KLGRFPQVQAFVRSKPKLFRGLQIKYVRGSDPVLKLLDDNGNI  
 AEELSILKWNTDSVEEFLSEKLRI

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6061\\_c10.zip](https://cdn.origene.com/chromatograms/mk6061_c10.zip)

**Restriction Sites:** SgfI-MluI



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## Cloning Scheme:



ACCN: NM\_004261

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM\\_004261.5](#)

RefSeq Size: 1851 bp

RefSeq ORF: 498 bp

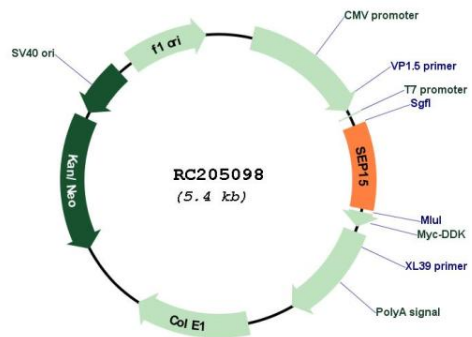
Locus ID: 9403

UniProt ID: [O60613](#)

Cytogenetics: 1p22.3

**Gene Summary:** The protein encoded by this gene belongs to the SEP15/selenoprotein M family. The exact function of this protein is not known; however, it has been found to associate with UDP-glucose:glycoprotein glucosyltransferase (UGTR), an endoplasmic reticulum(ER)-resident protein, which is involved in the quality control of protein folding. The association with UGTR retains this protein in the ER, where it may play a role in protein folding. It has also been suggested to have a role in cancer etiology. This protein is a selenoprotein, containing the rare amino acid selenocysteine (Sec). 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, Nov 2016]

## Product images:



Circular map for RC205098