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Product datasheet for RC205098

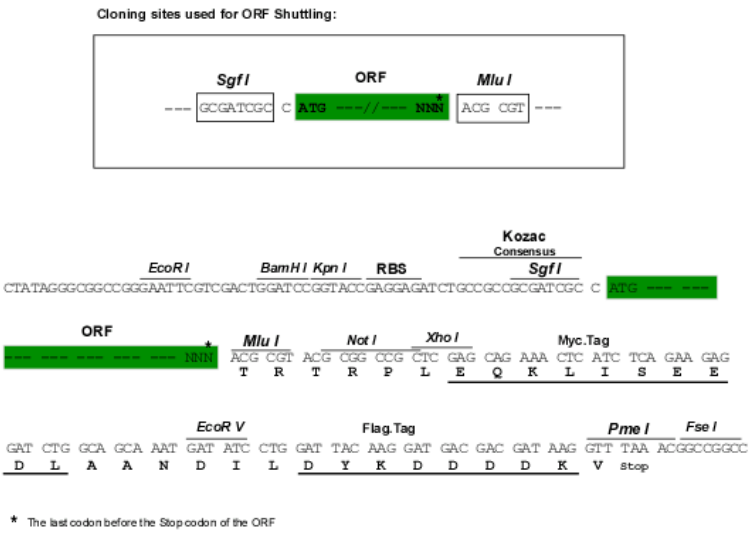
SEP15 (NM_004261) Human Tagged ORF Clone

Product data:

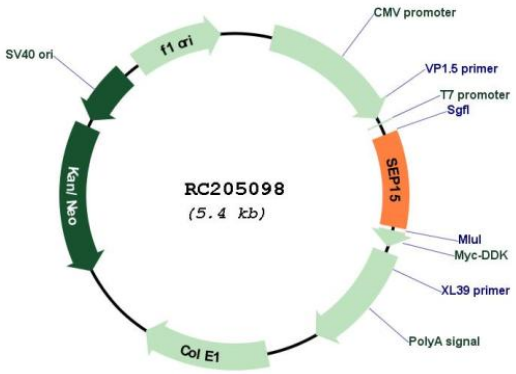
Product Type:	Expression Plasmids
Product Name:	SEP15 (NM_004261) Human Tagged ORF Clone
Symbol:	SELENOF
Synonyms:	SEP15
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC205098 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGTAGCGATGGCGGCTGGGCCGAGTGGGTGTCTGGTGCCGGCGTTTGGGCTACGGTTGTTGTTGGCGA CTGTGCTTCAAGCGGTGTCTGCTTTTGGGGCAGAGTTTTCATCGGAGGCATGCAGAGAGTTAGGCTTTTC TAGCAACTTGCTTTGCAGCTCTTGTGATCTTCTCGGACAGTTCAACCTGCTTCAGCTGGATCCTGATTGC AGAGGATGCTGTCAGGAGGAAGCACAATTTGAAACCAAAAAGCTGTATGCAGGAGCTATTCTTGAAGTTT GTGGATGAAAATTGGGAAGGTTCCCTCAAGTCCAAGCTTTTGTTAGGAGTGATAAACCCAAACTGTTCAG AGGACTGCAAATCAAGTATGTCCGTGGTTCAGACCCTGTATTAAAGCTTTTGGACGACAATGGGAACATT GCTGAAGAACTGAGCATTCTCAAATGGAACACAGACAGTGTAGAAGAATTCCTGAGTGAAAAGTTGGAAC GCATA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC205098 protein sequence Red=Cloning site Green=Tags(s) MVAMAAGPSGCLVPAFGLRLLLATVLQAVSAFGAEFSSEACRELGFSSNLLCSSCDLLGQFNLLQLDPDC RGCCQEEAQFETKKLYAGAILEVCG*KLGRFPQVQAFVRSDKPKLFRGLQIKYVRGSDPVLKLLDDNGNI AEELSILKWNTDSVEEFLSEKLERI TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6061_c10.zip
Restriction Sites:	SgfI-MluI

View online »

Cloning Scheme:



Plasmid Map:



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.

RefSeq:	NM_004261.5
RefSeq Size:	1851 bp
RefSeq ORF:	498 bp
Locus ID:	9403
UniProt ID:	O60613
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]