

Product datasheet for MR229607

Selenop (NM_001042613) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Selenop (NM_001042613) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Selenop
Synonyms: AU018766; D15Ucl; D15Ucla1; s; Se; Se-P; selp; Sepp1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR229607 representing NM_001042613
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGGAGAAGCCTAGGGCTTGCCTGGCTCTCTGTCTCCTCCCCTATGGAGGAGCAGAGAGCCAAGGCC
 AAAGCTCTGCTTGTACAAAGCCCCGGAGTGGTACATAGGAGATCAAATCCAATGCTAAACTCAGAGGG
 CAAAGTGACAGTGGTGTCTTCTTCAAGCCAGCTGATACTTGTGTCTTGCAGGCATCCAGATTGGAA
 GACCTGCGCATAAACTAGAAAGCCAAGGATATTTAACATCTCTACATTGTTGTTAACCATCAAGGAT
 CTCCTTCCAATAAAACACTCACATCTTAAAAAGCAGGTGTGAGAACACATCGCAGTGTACAGACAAGA
 AGAAGATGGCATAGATGTCTGGACTCTTAAATGGAAACAAAGATGACTTCTCATCTATGACAGATGT
 GGCCGTCTTGTGTATCACCTTGGTTTGCCTTACTCCTTCCCTCACATTCCCATATGTTGAAGAAGCCATTA
 AGATCGCTTACTGTGAGGAGAGGTGCGGAACTGCAATCTCACGAGTCTTGAAGATGAAGACTTCTGTAA
 AACTGTGACCTCAGCTACTGCCAATAAACTGCGGAGCCCTCAGAGGCTCATAGCCACCACAAACACCAC
 AACAAACATGGGCAGGAGCATCTTGGCAGCAGTAAGCCTTCAAGAAATCAGCAACCAGGGCCATCAGAGA
 CGACTCTGCCTCCTTCAAGCTTGCACCACCACAGGCATAGGGGCCAGCACAGGCAGGGTCACTTAGA
 GAGCTGAGACACCACAGCAAGTGAAGGCTTGCACCTTTCACTTGCCAGAGGAAGCTCTGACGAAGGGGG
 TGCATCAACCAGCTCCTGTGAAGTTGTCTAAGGAGTCCGAGGCAGCCCCAGCAGCTGCTGTCTCAT
 GCCCCACCTCATATTTGAGAAGTCAGGGTCTGCAATTGCTTGACAGTGTGCGGAAAACCTCCCATCCTT
 ATGTAGCTGACAGGGGCTTTTCGCGGAGGAGAAAGTCACTGAATCCTGTCAAGTGTAGGTCACCTCCAGCT
 GCCTGACAAAATCAGCCCATGAACCCCATGGAAGCCAACCCCACTGAAGCTGAGATAATCAGACCAGGA
 AGTGAAAATGACATTCAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229607 representing NM_001042613
 Red=Cloning site Green=Tags(s)

MWRSLGLALALCLLPYGGAESQGGSSACYKAPEWYIGDQNPMLNSEGKVTVVALLQAS*YLCLLQASRLE
 DLRIKLESQGYFNI SYIVVNHQGSQSPSQLKSHLKKQVSEHIAVYRQEEDGIDVWTLNNGNKDDFLIYDRC
 GRLVYHLGLPYSFLTFFPYVEEAIKIAyceerCNCNLTSLEDEDFCKT VT SATANKTAEPSEAHSHHKHH
 NKHGQEHLGSSKPSENQPPGPSETTLPPSGLHHHRHRGQHRQGHLES*DTTASEGLHLSLAQRKL*RRG
 CINQLLCKLSKESEAAPSSCCCHRHLIFEKSGSAIA*QCAENLPSLCS*QGLFAEEKVTESCQCRSPPA
 A*QNQPMNPM EANPN*S*DNQTRK*K*HSN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001042613

ORF Size: 1140 bp

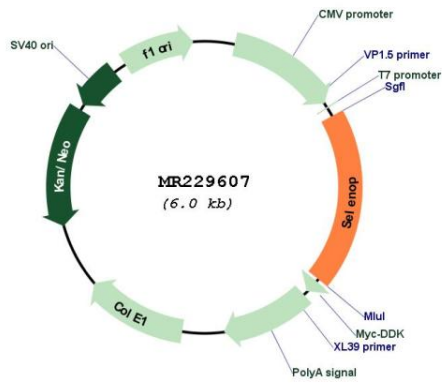
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<ol style="list-style-type: none">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:	<u>NM_001042613.2</u>
RefSeq Size:	2013 bp
RefSeq ORF:	1143 bp
Locus ID:	20363
UniProt ID:	<u>P70274</u>
Cytogenetics:	15 1.84 cM
MW:	42.4 kDa
Gene Summary:	<p>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 mouse), and accounts for most of the selenium in plasma. It has been implicated as an extracellular antioxidant, and in the transport of selenium to extra-hepatic 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. Alternatively spliced transcript variants differing in 5' non-coding region have been described for this gene. Expression of these variants varies in different tissues and developmental stages (PMID:23064117). [provided by RefSeq, Feb 2017]</p>

Product images:



Circular map for MR229607