

# Product datasheet for MG205928

## Selenop (NM\_001042613) Mouse Tagged ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	Selenop (NM_001042613) Mouse Tagged ORF Clone
Symbol:	Selenop
Synonyms:	AU018766; D15Ucl; D15Ucla1; s; Se; Se-P; selp; Sepp1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205928 representing NM_001042613 Red=Cloning site Blue=ORF Green=Tags(s)
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

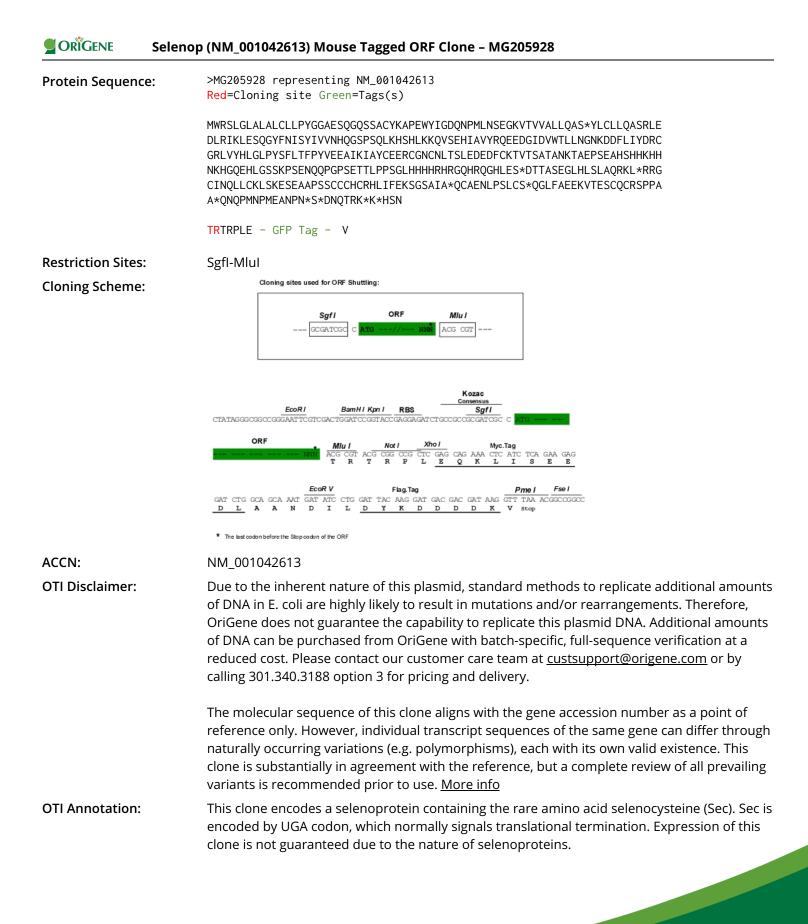
ATGTGGAGAAGCCTAGGGCTTGCCCTGGCTCTCTGTCTCCCCCTATGGAGGAGCAGAGAGCCAAGGCC AAAGCTCTGCTTGTTACAAAGCCCCCGGAGTGGTACATAGGAGATCAAAATCCAATGCTAAACTCAGAGGG CAAAGTGACAGTGGTTGCTCTTCTTCAAGCCAGCTGATACTTGTGTCTTCTGCAGGCATCCAGATTGGAA GACCTGCGCATAAAACTAGAAAGCCAAGGATATTTTAACATCTCTTACATTGTTGTTAACCATCAAGGAT CTCCTTCCCAATTAAAACACTCACATCTTAAAAAGCAGGTGTCAGAACACATCGCAGTGTACAGACAAGA AGAAGATGGCATAGATGTCTGGACTCTCTTAAATGGAAACAAAGATGACTTCCTCATCTATGACAGATGT AGATCGCTTACTGTGAGGAGAGGTGCGGAAACTGCAATCTCACGAGTCTTGAAGATGAAGACTTCTGTAA AACTGTGACCTCAGCTACTGCCAATAAAACTGCGGAGCCCTCAGAGGCTCATAGCCACCACAAACACCAC AACAAACATGGGCAGGAGCATCTTGGCAGCAGTAAGCCTTCAGAGAATCAGCAACCAGGGCCATCAGAGA GAGCTGAGACACCACAGCAAGTGAAGGCTTGCACCTTTCACTTGCCCAGAGGAAGCTCTGACGAAGGGGG TGCATCAACCAGCTCCTGTGTAAGTTGTCTAAGGAGTCCGAGGCAGCCCCCAGCAGCTGCTGCTGTCACT GCCGCCACCTCATATTTGAGAAGTCAGGGTCTGCAATTGCTTGACAGTGTGCGGAAAACCTCCCATCCTT ATGTAGCTGACAGGGGCTTTTCGCGGAGGAGAAAGTCACTGAATCCTGTCAGTGTAGGTCACCTCCAGCT GCCTGACAAAATCAGCCCATGAACCCCATGGAAGCCAACCCCAACTGAAGCTGAGATAATCAGACCAGGA AGTGAAAATGACATTCAAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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<b>ORIGENE</b> Selenop (NM_001042613) Mouse Tagged ORF Clone – MG205928	
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> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
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
Gene Summary:	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 extrahepatic 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

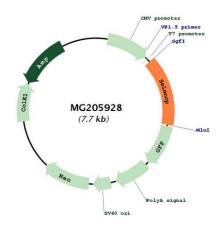
Alternatively spliced transcript variants differing in 5' non-coding region have been described for this gene. Expression of these variants varies in different tissues and developmental

than as a stop signal. The mRNA for this selenoprotein contains two SECIS elements.

stages (PMID:23064117). [provided by RefSeq, Feb 2017]

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# **Product images:**



Circular map for MG205928

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