

Product datasheet for **MC203889**

Selenof (NM_053102) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Selenof (NM_053102) Mouse Untagged Clone
Symbol: Selenof
Synonyms: 9430015P09Rik; Sep; Sep15
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >BC019792
GGCAGACCGCAGGGATGGCGGCAGGGCAGGGTGGGTGGCTGCGGCCGCTCTGGGGCTGCGCTTGTCTGCT
GGCGACTGCGTTTCAAGCGGTGTCTGCTCTGGGGCAGAGTTTGGCGTCAGAGGCATGCAGAGAGTTGGGT
TTCTCCAGCAACTTGCTCTGCAGCTCTTGCAGTCTTCTGGACAGTTTAACTGCTCCCACTGGACCCCTG
TTTGACAGAGGGTGTCTCAGGAAGAAGCACAATTTGAAACCAAAAAGCTGTATGCAGGAGCCATCCTTGA
AGTCTGCGGATGAAAATTGGGGAGGTTGCCTCAAGTCCAAGCTTTTGTGCAAGTGATAAACCCAAACTC
TTCAGAGGTCTACAGATCAAGTATGTTTCGAGGCTCAGACCCTGTACTAAAGCTTTTGGACGACAACGGGA
ACATTGCTGAAGAATAAGCATCCTCAAATGGAACACAGACAGTGTGGAAGAGTTCTGAGCGAGAAGTT
GGAACGCATATAAACATGCTTAGTAGTTTTATACTAATCAAATGAATTATCACAGCACCTAGACAATAA
TAGCACACAGTCCATAATATATCAGGATCTGGCAAGCTTAAGGAACCCAGCTCTAGAAAATTTCTCTTC
TTCTACACTTGTTGCTCTCACCAGTGAACGCTTTGTAAGGAGGCATCTGGTAATTATGCAAAATAAGTT
TGTGATAATTGCTCCAGTTCTACAAACAACAGAAATTTAAATAGAGGAAGTGGATAAAGGAGACACCTCC
CTTGCTGTGTGCTCTTTGAAAGTAATTGACAGAAAACACAAACACGTAGGATGCCTGCGCCTCAGCAG
CACCCACCCAGAGCCTTTGGCGTGCCAGCTTTCTTTTCAGTACAAGTATTTGTAGTTTGTAAATGAAT
GTGCCACATACAGGTTTTGTAGCTTATTATTATGGAACAGACTGAAGATCTGCAGTACGAATGTAATACT
TATAAAGGTTTGCATTAATGAGGATTACACAGAAAACCTTTGTTAAGGACTTGTGTAGATCTGATAATTG
GCAAAATTTTATTTAAAAGTATTCTTACAGAAGAGTTCCATTTAAGAATGTTCACTTATAGGACCAAAA
TATAAATAAAAACCTTTCAAATATGTTTATTTTAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_053102

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). The expression of this clone is not guaranteed due to the nature of selenoproteins.



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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>BC019792</u> , <u>AAH19792</u>
RefSeq Size:	1238 bp
Locus ID:	93684
UniProt ID:	<u>Q9ERR7</u>
Cytogenetics:	3 H2
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. Knockout studies in mice also suggest a role for this gene in cataract formation and colon carcinogenesis. 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. [provided by RefSeq, Nov 2016]