

## Product datasheet for MC225713

### Selenoh (NM\_001037279) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Selenoh (NM_001037279) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Selenoh
Synonyms:	2700094K13Rik; Se; Selh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC225713 representing NM_001037279 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGCCCCCACGGAAGAAAGCGTAAGGCGGGGCGCGCCTATGGAGACGGTGGACAAGCGCGAGAAAC  
TGGCGGAGGGCGCACCGTGGTCATTGAGCATTGTACGAGCTGACGCGTGTACGGCCGCATGCTGCTGC  
CTTGAGCCAGGCTCTGCAACTGGAGGCCCCAGAGCTACCTGTGCAAGTGAACCCGTCCAAACCGCGGAGG  
GGCAGCTTCGAGGTGACGCTGCTGCGCTCGGACAACAGCCGTGTTGAACCTGGACTGGTATTAAGAAGG  
GCCCTCACGAAAGCTCAAATTCCTGAGCCTCAAGAGGTGGTTGAAGAATTGAAGAAGTACCTTCATA  
A

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-RsrII
ACCN:	NM_001037279
Insert Size:	351 bp
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).



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<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001037279.2, NP_001032356.1</u>
<b>RefSeq Size:</b>	669 bp
<b>RefSeq ORF:</b>	351 bp
<b>Locus ID:</b>	72657
<b>UniProt ID:</b>	<u>Q3UQA7</u>
<b>Cytogenetics:</b>	2 D
<b>Gene Summary:</b>	<p>This gene encodes a nucleolar protein, which belongs to the SelWTH family. It functions as an oxidoreductase, and has been shown to protect neurons against UVB-induced damage by inhibiting apoptotic cell death pathways, promote mitochondrial biogenesis and mitochondrial function, and suppress cellular senescence through genome maintenance and redox regulation. This protein is a selenoprotein, containing the rare amino acid selenocysteine (Sec) at its active site. 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, May 2016]</p> <p>Transcript Variant: This variant (2) uses an alternate donor splice site at the penultimate exon in the 3' non-coding region compared to variant 1. Variants 1 and 2 encode the same protein.</p>