

## Product datasheet for **MC220280**

### Selenoo (NM\_027905) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Selenoo (NM_027905) Mouse Untagged Clone
Symbol:	Selenoo
Synonyms:	1300018J18Rik; S; Selo
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC220280 representing NM\_027905  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCTCTGTCAAGGCCGCGGTGCGGGCCTCGCTCGCGTTGCCGAACCCGGCCACGGTGCCTCGGTC  
 TCGCGCTTCCGTGTCGCGCCCGGTCCGCCTGGGCTGCAGCTATGGAGCCACGCCGCTTGGCTGGC  
 AGGGCTGCGCTTTGACAACCGCGCCCTGCGTGAGCTGCCGGTGGAGACGCCGCGCCCTGGCCGGAGGAC  
 TCCCTGGCCACCCCGCGCCGGTCCCGGAGCCTGCTTACGCCGTGCGCGGCCGGCCCGCTACGGCGGC  
 CGCGCCTGGTGGCGCTGTAGAGCCCGCTGGCCTTGTGGGGCTCGAGGCCAGCGAGGAGGCCGAGGT  
 CGAGGCCGAAGCTGCGCTCTTCTCAGCGGAATGCGCTGCTGCCGGCACCCAGCCCGCCGCGCACTGC  
 TACTGTGGACACCAGTTCGGTCAGTTCGCTGGCAGTTGGGCGACGGTCCGCCATGTACCTGGGCGAGG  
 TGTGCACAGCGGCCGGCGAGCGTGGGAGCTGCAGCTCAAAGGCCCGGCCACGCCCTTCTCCAGACA  
 AGCCGATGGTGCAGAAAGTCTGCGGTCAAGCATCCGTGAGTTCCTGTGCAGCGAAGCCATGTTTCACCTG  
 GGAATCCCCACCACGAGGCCGGGGCTGCGTACGCTCTGAGTCTACAGTGTGCGAGACGTGTTCTATG  
 ATGGTAATCCAAAATATGAAAAGTGCACGGTGTGTTGCGTATAGCTCCCACTTTCATAAGATTCGGCTC  
 CTTTGAATTTTTAAGCCTCCTGATGAGCACACAGGGCGTGCAGGCCACGCGTGGGACGAGATGATATC  
 CGAGTCCAATTGCTTGACTATGTCATCAGCTCTTCTACCTGAGATCCAGGCTGCCCATACCTGTGACA  
 CGGACAACATACAGAGGAACCGGCCCTTTTTAGAGAGGTGACACAGCGAACAGCACGGATGGTTGCTGA  
 ATGGCAGTGTGTTGGCTTTGCCATGGCGTGTCAACACTGACAACATGAGCATTGTGGGGCTCACTATC  
 GACTATGGACCTTTGGCTTCTGGACAGGTACGACCTGACCATATATGTAATGCCTCTGACAATGCTG  
 GCGCTACACATACAGTAAGCAGCCCCAGGTATGCAAGTGAATCTGCAGAAACTAGCTGAAGCATTGGA  
 GCCTGAAGTGCCTTGGCTGGCTGAGGCCATTCTAAAAGAGGAGTTTGACACTGAGTTCCAAAGGCAC  
 TATCTACAGAAGATGCGTAAAAAGCTGGCCCTATTTCGAGTGGAGAAGGAAGAAGATGGGACACTTGTGG  
 CCAAACCTCTGGAGACCATGCATCTGACTGGTGTGACTTCACTAACACCTTCTGTGTTCTGAGCTCCTT  
 TCCGGCTGACCTGTCGGACTCAGCAGAGTTCCTGAGCAGGCTGACCTCCCACTGTGCTCTCTGGAAGAG  
 CTAAGGCTCGCCTCAGACCACAGATGGATCCCCGGCAGCTCTCTATGATGCTGATGCTTGCACAGTCGA  
 ACCCACAGCTCTTGCACCTATTGGTACTCAAGCCAATGCACAAAGGAGCTAGAAGCTGTGGAGCATCA  
 GTCTCGGCTAGAAGAGCTGAGCCCTCTGACCTGCAGCGCAAGAAGCAGAGACCACTGGGAAGCCTGGCTA  
 CAGGAATACAGAGACCGTCTCGACAAGGAGAAGGAGGTTGGGAGACTGCTGCCTGGCAGGCAGAAC  
 GTGTACGTGTATGCGTGCCAACAACCCCAAGTACGTCCTGAGGAACTATATTGCACAGAAAGCCATTGA  
 AGCTGCTGAAAATGGAGACTTTTCAGAGGTGCGGCGTGTCTGAAAGCTGTAGAGTCTCCTTACCACAGT  
 GAAGAGGAGGCCACAGGCCCTGAAGCAGTGGCAAGGAGCACTGAGGAGCAATCTTCTACAGTAACAGGC  
 CACCCCTCTGGGCAGCAGAACTCTGTGTAACATGATCCTCA**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_027905

**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.

**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.

<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><a href="#">NM_027905.2</a></u> , <u><a href="#">NP_082181.2</a></u>
<b>RefSeq Size:</b>	2360 bp
<b>RefSeq ORF:</b>	2004 bp
<b>Locus ID:</b>	223776
<b>UniProt ID:</b>	<u><a href="#">Q9DBC0</a></u>
<b>Cytogenetics:</b>	15 E3
<b>Gene Summary:</b>	This gene encodes a selenoprotein that is localized to the mitochondria. It is the largest mammalian 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. The exact function of this selenoprotein is not known, but it is thought to have redox activity. [provided by RefSeq, Jan 2017]