

## Product datasheet for **RN216369**

### Selenov (NM\_001166396) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Selenov (NM_001166396) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Selenov
Synonyms:	RGD1562943; Selv
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN216369 representing NM_001166396 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**

ATGAATAACAAGGCGCGGAACCCCGCTCCCTCTTCAGTCCGGGCAAACACCCGTCCTCCGGACACCCACTC  
CCGTCCGAACCGGACCCAGTCAGGGCCTCGACCCGGCGCACAACCGGTCTCCGGTCCGAACATCCAT  
CCGGGTCGGACTCCTGCTAACCTGTTCAATTTCGGTTCCTACTCCAGCCCCAGCCCCTGCCCAACT  
CCAACCCAGCCCAACTCCAGCCCAGTCCCGCCGCGAGCACCGGTGCGGACTCCAGCACCAGTCCGGG  
CCTCCATTCAAGGTCGGAGCTTTCCACGATCTCTCAGTGAGATTCTTACGGAATTGGCCTTGCCCGC  
GGCAGAGCCCTTTCTTCGGGGGTGCTGGCTCTCTCAAAGGATCTCACGCTCGCTCAAAGCAGAAG  
CCCTCGATCCACAGCCTAGCGGAGGCCATCCAGGGGCCCTTTCCAGTGCTCACTCCCTCGGCCTCCTCGG  
AGACCCACGGCTCCATACCGGACCCCGCCCTCCCACTGACTCCTTGCTTCCACTGCCATGGCCTCCAG  
TACCTTGAGCCCATTCGGGCCCAAACCTACACTAGAGTTCTTGCCCTCCCGCTGAAGGAAACCCCT  
GATTTGGTAAGCTCTCCAAATTTCCCAGCACAGAATTCTGTTCCACTAAGGAGTCCCTCCACCA  
GCGAGGACGTCCAACGGCCAACAGAATCTTGATCCGTGTGATGTACTGTGGCCTCTGAAGCTATGGCCT  
TCGGTACATTCTACTGAAAAAGACCCTGGAGCATCAATTTCCAAACCTTCTGGAGTTTGAGGAGGAAAGA  
GCTACCCAGGTTACAGGGGAGTTTGAAGTGTGTTGGATGGGAAATTGATCCATTCCAAGAAGAAAGGCG  
ATGGCTTTGTGGATGAGACTAGTCTGAAGAACTTGTGGGTGCTATTGATGAAGAGATCAAGAAAAGGTA  
G

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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<b>ACCN:</b>	NM_001166396
<b>Insert Size:</b>	981 bp
<b>OTI Disclaimer:</b>	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).
<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_001166396.1, NP_001159868.1</u>
<b>RefSeq Size:</b>	1228 bp
<b>RefSeq ORF:</b>	981 bp
<b>Locus ID:</b>	499113
<b>Cytogenetics:</b>	1q21
<b>Gene Summary:</b>	<p>This gene encodes a selenoprotein containing a selenocysteine (Sec) residue, which is encoded by the UGA codon that normally signals translation termination. The 3' UTRs of selenoprotein mRNAs contain a conserved stem-loop structure, the Sec insertion sequence (SECIS) element, which is necessary for the recognition of UGA as a Sec codon rather than as a stop signal. This protein is specifically expressed in the testis. It belongs to the SelWTH family, which possesses a thioredoxin-like fold and a conserved CxxU (C is cysteine, U is Sec) motif, suggesting a redox function for this gene. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Apr 2017]</p> <p>Transcript Variant: This variant (1) represents the predominant transcript, and encodes a selenoprotein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript and the encoded protein are supported by orthologous mouse data. ##RefSeq-Attributes-START## NMD candidate :: translation inferred from conservation protein contains selenocysteine :: inferred from conservation ##RefSeq-Attributes-END## COMPLETENESS: complete on the 3' end.</p>