

Product datasheet for **SC111961**

SELS (SELENOS) (NM_018445) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SELS (SELENOS) (NM_018445) Human Untagged Clone
Symbol:	SELS
Synonyms:	AD-015; ADO15; SBB18; SELS; SEPS1; VIMP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111961 sequence for NM_018445 edited (data generated by NextGen Sequencing) ATGGAACGCCAAGAGGAGTCTCTGTCCGCGCGGCCCGCCCTGGAGACCGAGGGGCTGCGC TTCCTGCACACCACGGTGGGCTCCCTGCTGGCCACCTATGGCTGGTACATCGTCTTCAGC TGCATCCTTCTCTACGTGGTCTTTCAGAAGCTTCCGCCCCGGCTAAGAGCCTTGAGGCAG AGGCAGCTGGACCGAGCTGCGGCTGCTGTGGAACCTGATGTTGTTGTTAAACGACAAGAA GCTTTAGCAGCTGCTCGACTGAAAATGCAAGAAGAACTAAATGCGCAAGTTGAAAAGCAT AAGGAAAACTGAAACAACCTGAAGAAGAAAAAGGAGACAGAAGATTGAAATGTGGGAC AGCATGCAAGAAGGAAAAAGTTACAAAGGAAATGCAAAGAAGCCCCAGGAGGAAGACAGT CCTGGGCCTTCCACTTCATCTGTCCTGAAACGAAATCGGACAGAAAGCCTTTGCGGGGA GGAGGTTATAACCCGTTGTCTGGTGAAGGAGCGGAGCTTGCTCCTGGAGACCTGGACGC AGAGGCCCGTCATCTGGCGGATGAGGCTAA Clone variation with respect to NM_018445.4



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018445 unedited
 GGTGCGAATTTTGTAAATACGAACTCACTATAGGGCGGCCGGAATCGGCACGAGGCGGCG
 GCGGCGGCGGCGGTATGGAACGCCAAAAGGAGTCTCTGTCCGCGCGGCCGCGCCCTGGAG
 ACCGAGGGGCTGCGCTTCTCTGCACACCAGGTGGGCTCCCTGCTGGCCACCTATGGCTGG
 TACATCGTCTTCAGCTGCATCCTTCTCTACGTGGTCTTTCAGAAGCTTCCGCCCCGCTA
 AGAGCCTTGAGGCAGAGGCAGCTGGACCGAGCTGCGGCTGCTGTGGAACCTGATGTTGTT
 GTTAAACGACAAGAAGCTTTAGCAGCTGCTCGACTGAAAATGCAAGAAGAACTAAATGCG
 CAAGTTGAAAAGCATAAGGAAAACTGAAACAACCTTGAAGAAGAAAAAGGAGACAGAAG
 ATTGAAATGTGGACAGCATGCAAGAAGAAAAAGTTACAAAGGAAATGCAAAGAAGCCC
 CAGGAGGAAGACAGTCTGGGCTTCCACTTCATCTGCTGAAACGGAAATCGGACAGA
 AAGCCTTTCGCGGGAGGAGGTTAACCCTGTGCTGGTGAAGGAGGCGGAGCTTGTCTC
 TGGAGACCTGGACGACAGGCGCCGTCATCTGGCGGATGAGGCTAAGAATCTTGTTAGTGT
 CACTTTTGACATTAGCAAGATGAACCTTAACCCTCGATTCAATTGCCTTACGCACGCTN
 TTCACAGTGACTAGCCAAGGAGGTGGGTTGATTTCTGTTCTAACTACACCTGCATAT
 GTCAGGGCTCCAGTCAGCAAAGGTATAGATGTTGCCTCTAGCATGAGGTCATGGGTCACA
 TTCTACTNGNAGACAGTGATTGCATTCATTGGATTTCATGGGTAATTGCTAGTTGGGTAGT
 A

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_018445 unedited
 CCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTGGAGGTTGTAATAAAAAG
 CTATTTAATGTTTATAGACAAATTGAAGTCCATAAATCTCCTTGAAATAAAGATGCTAAA
 AATGTTATTCTTGTTTTTTAAATAGTTTCGTTTTTACAAAGTTCTGTACATAAAAATAAA
 TATACAGAAACAAACCCCATCAACTGTCCACATCAGTAATCCTCACTGGTGGGCTCACCA
 TTGATAAGGAAGACATCATTCAACGCAACCTGTACAGAGACTGCTTAGCAGCAAGGAT
 TTCTAACCTCAAAGAACATTACTAGGCCTTTTTATCAAGATTGCTAATCATCTAGAGG
 CCTTTACCTACCAACTAGCAATTAACCATGAAATCAATGAATGCAATCACTGTCTCCAAG
 TAGAATGTGACCAATGACCTCATGCCTAGAGGCAACATCTATACCTTTTGTGACTGGAG
 CCCTGACATATGCAGGTGTAGTTAGGAACAGAAATCAACCCACCATCCCTTGGTAGTC
 ACTGTGAAAAGCGTGCCTAATGCAATTGAATCGAGGGTTAAGGGTTCATCTTGCTAATGT
 CAAAAGTGACACTAACAAGATTCTTAGCCTCATCCGCAGATGACGGGCTCTGCGTNCA
 GGTCTCCAGGAGCAAGCTCCGNCTCTTACCAGACAACGGGTATAACCTCCTNCCCGCAA
 AGGCTTTCTGTCCGATTTCCGTTTCAGGACAGATGAAGTGGAAAGGCCAGACTGTCTT
 NCTNCTGGGGCCTCCTTTGCATTTNCTTTGTAACTTTTNCTTCTGCATGCTNGCCAC
 ATTTCAATCTTCTGTCTCCTTTTTNCTCCTCAAAGTGGTTCAGNTTTTCTTATGCTT
 TNCAACTTGCGCATTTAGGTCTTCTTGCTTTTCAATCNAGCAGCTGCTAAAGCTCCTTGT
 CGTTAACACAACTCAGGTTCCAAGAG

Restriction Sites:

NotI-NotI

ACCN:

NM_018445

Insert Size:

1240 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). 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.

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>NM_018445.4, NP_060915.2</u>
RefSeq Size:	1250 bp
Locus ID:	55829
UniProt ID:	<u>Q9BQE4</u>
Cytogenetics:	15q26.3
Protein Families:	Druggable Genome
Gene Summary:	<p>This gene encodes a transmembrane protein that is localized in the endoplasmic reticulum (ER). It is involved in the degradation process of misfolded proteins in the ER, and may also have a role in inflammation control. 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. Two additional phylogenetically conserved stem-loop structures (Stem-loop 1 and Stem-loop 2) in the 3' UTR of this mRNA have been shown to function as modulators of Sec insertion. An alternatively spliced transcript variant, lacking the SECIS element and encoding a non-Sec containing shorter isoform, has been described for this gene (PMID:23614019). [provided by RefSeq, Jul 2017]</p> <p>Transcript Variant: This variant (1) represents the predominant transcript, and encodes a selenocysteine-containing longer isoform (1).</p>