

Product datasheet for **SC100672**

SELH (SELENOH) (NM_170746) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SELH (SELENOH) (NM_170746) Human Untagged Clone
Symbol:	SELH
Synonyms:	C11orf31; C17orf10; SELH
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	<p>>OriGene ORF within SC100672 sequence for NM_170746 edited (data generated by NextGen Sequencing)</p> <p>ATGGCTCCCCGCGGGAGGAAGCGTAAGGCTGAGGCCGGTGGTCGCCGTAGCCGAGAAG CGAGAGAAGCTGGCGAACGGCGGGAGGGAATGGAGGAGCGACCGTTGTTATCGAGCAT TGCACTAGCTGACGCGTCTATGGGCGCAACGCCGCGGCCCTGAGCCAGGCGCTGCGCCTG GAGGCCCCAGAGCTTCCAGTAAAGGTGAACCCGACGAAGCCCCGAGGGGAGCTTCGAG GTGACGCTGCTGCGCCCGGACGGCAGCAGTGGGAGCTCTGGACTGGGATTAAGAAGGGG CCCCCACGCAAACTCAAATTCCTGAGCCTCAAGAGGTGGTGAAGAGTTGAAGAAGTAC CTGTCGTAG</p> <p>Clone variation with respect to NM_170746.2</p>
5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_170746 unedited</p> <p>GCACGAGGGTTTCCGCTGTAGGAGCAGAGCTTCCGGGCTGCGCTCTTCGTTGCCAGTTT CCGCTCAGTGGTCGCGTCTCCGCCCCCACCACAGTCCCGCTGCATTCTCGGCCGGGC TCTAGGCGCCATGGCTCCCCGCGGGAGGAAGCGTAAGGCTGAGGCCGCGGTGGTCGCCGT AGCCGAGAAGCGAGAGAAGCTGGCGAACGGCGGGAGGGAATGGAGGAGCGACCGTTGT TATCGAGCATTGCACTAGCTGACGCGTCTATGGGCGCAACGCCGCGGCCCTGAGCCAGGC GCTGCGCCTGGAGGCCCCAGAGCTTCCAGTAAAGGTGAACCCGACGAAGCCCCGAGGGG CAGCTTCGAGGTGACGCTGCTGCGCCCGACGGCAGCAGTGGGAGCTCTGGACTGGGAT TAAGAAGGGGCCCCACGCAAACTCAAATTCCTGAGCCTCAAGAGGTGGTGAAGAGTT GAAGAAGTACCTGTCGTAGGGAGATTTGGGTAGAAGCCCTCATGCTGAGCTTTGTGTCC TGGTGATGTTGGAACATTAATGATGGAACATGGCCAACTTCAGTCATGATCCTGAAGCC ATGGTTTCTTCCCT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_170746


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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_170746.2, NP_734467.1</u>
RefSeq Size:	1294 bp
Locus ID:	280636
UniProt ID:	<u>Q8IZQ5</u>
Cytogenetics:	11q12.1
Gene Summary:	<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 (1) represents the longer transcript. Variants 1 and 2 encode the same protein.</p>