

Product datasheet for RC205870

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OriGene Technologies, Inc.

SELH (SELENOH) (NM_170746) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: SELH (SELENOH) (NM_170746) Human Tagged ORF Clone

Symbol: SELH

Synonyms: C11orf31; C17orf10; SELH

Mammalian Cell Neomycin

Selection:

Vector:

pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide >RC205870 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCTCCCCGCGGGAGGAAGCGTAAGGCTGAGGCCGCGGTGGTCGCCGTAGCCGAGAAGCGAGAAGAAGC

TGGCGAACGCCGGGGGAGGGAATGGAGGAGGCGACCGTTGTTATCGAGCATTGCACTAGCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC205870 protein sequence

Red=Cloning site Green=Tags(s)

MAPRGRKRKAEAAVVAVAEKREKLANGGEGMEEATVVIEHCTS

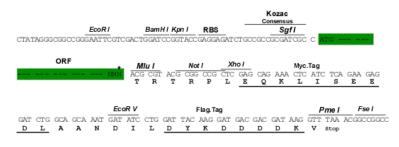
TRTRPLEQKLISEEDLAANDILDYKDDDDK**V**

Restriction Sites: Sgfl-Mlul



Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_170746

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info 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:

- 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

 RefSeq Size:
 1294 bp

 RefSeq ORF:
 369 bp

 Locus ID:
 280636

 UniProt ID:
 08IZQ5

 Cytogenetics:
 11q12.1

Gene Summary: 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

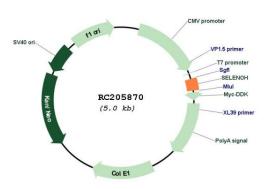
mitochondrial function, and suppress cellular senescence through genome maintenance and

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]

Product images:



Circular map for RC205870