

Product datasheet for MR227924

Selenoh (NM_001037279) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Tag: Myc-DDK

Symbol: Selenoh

Synonyms: 2700094K13Rik; Se; Selh

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-Entry (PS100001)

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

ORF Nucleotide Sequence: >MR227924 ORF sequence

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCCCCCCACGGAAGAAGCGTAAGGCGGGGGCCGCGCCTATGGAGACCGTGGACAAGCGCGAGAAAC
TGGCGGAGGGCGCGCACCATTGAGCATTGTACGAGCTGACGCGTGTACGGCCGCCATGCTGCTGC
CTTGAGCCAGGCTCTGCAACTGGAGGCCCCAGAGCTACCTGTGCAAGTGAACCCGTCCAAACCGCGGAGG
GGCAGCTTCGAGGTGACGCTGCTGCGCTCGGACAACAGCCGTGTTGAACTCTGGACTGGTATTAAGAAGG
GCCCTCCACGAAAGCTCAAATTTCCTGAGCCTCAAGAGGTGGTTGAAGAATTGAAGAAGTACCTTTCA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGAGATCTGGCAGCAAATGATATCC

TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227924 protein sequence

Red=Cloning site Green=Tags(s)

MAPHGRKRKAGAAPMETVDKREKLAEGATVVIEHCTS*RVYGRHAAALSQALQLEAPELPVQVNPSKPRR

GSFEVTLLRSDNSRVELWTGIKKGPPRKLKFPEPQEVVEELKKYLS

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDK**V**

Restriction Sites: Sgfl-Rsrll



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

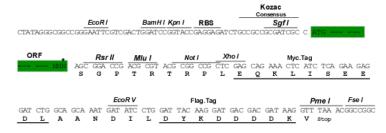
Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com

EU: info-de@origene.com CN: techsupport@origene.cn



Cloning Scheme:





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

ACCN: NM_001037279

ORF Size: 348 bp

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

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

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.

Selenoh (NM_001037279) Mouse Tagged ORF Clone | MR227924

RefSeq: <u>NM_001037279.2</u>, <u>NP_001032356.1</u>

RefSeq Size: 672 bp

RefSeq ORF: 351 bp

Locus ID: 72657

UniProt ID: Q3UQA7

Cytogenetics: 2 D

MW: 12.9 kDa

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

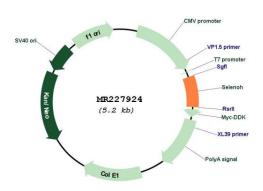
mitochondrial function, and suppress cellular senescence through genome maintenance and

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 MR227924