

Product datasheet for **RC209032**

Selenoprotein M (SELENOM) (NM_080430) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Selenoprotein M (SELENOM) (NM_080430) Human Tagged ORF Clone
Symbol: Selenoprotein M
Synonyms: SELM; SEPM
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC209032 representing NM_080430
Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCCTCCTGTTGCCTCCGCTGGCGCTGCTGCTTCTCGCGGCGCTTGTGGCCCCAGCCACAGCCG
CCACTGCCTACCGGCCGACTGGAACCGTCTGAGCGGCCAACC CGCCCGGTAGAGACCTGCGGGGG
ATGACAGCTGAACCGCTAAAGGAGGTGAAGGCTTTCGTACGCAGGACATTCCATTCTATCACAACTG
GTGATGAAACACCTCCCTGGGGCCGACCCTGAGCTCGTGCTGCTGGGCCCGCCGCTACGAGGAACTAGAGC
GCATCCCACTCAGTGAAATGACCCGCGAAGAGATCAATGCGCTAGTGCAGGAGCTCGGCTTCTACCGCAA
GGCGGCCGCCGACGCGCAGGTGCCCGGAGTACGTGTGGGCGCCCGAAGCCCCAGAGGAACTTCG
GACCACGCTGACCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC209032 representing NM_080430
Red=Cloning site Green=Tags(s)
MSLLLPLALLLLAALVAPATAATAYRPDWNRLSGLTRARVETCGGUQLNRLKEVKAFVTQDIPFYHNL
VMKHLPGADPELVLLGRRYEELERIPLEMTREEINALVQELGFYRKAAPDAQVPPEYVWAPAKPEETS
DHADL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4506_e01.zip

Restriction Sites: SgfI-MluI



[View online >](#)

Cloning Scheme:



ACCN: NM_080430

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.

RefSeq: [NM_080430.4](#)

RefSeq Size: 739 bp

RefSeq ORF: 438 bp

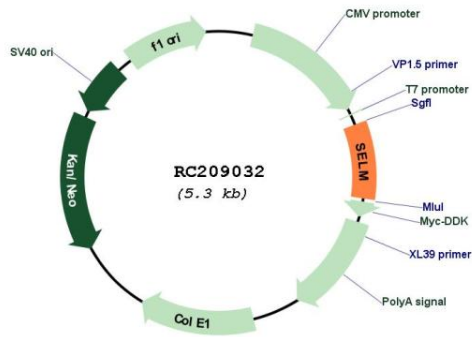
Locus ID: 140606

UniProt ID: [Q8WWX9](#)

Cytogenetics: 22q12.2

Gene Summary: The protein encoded by this gene belongs to the selenoprotein M/SEP15 family. The exact function of this protein is not known. It is localized in the perinuclear region, is highly expressed in the brain, and may be involved in neurodegenerative disorders. Transgenic mice with targeted deletion of this gene exhibit increased weight gain, suggesting a role for this gene in the regulation of body weight and energy metabolism. 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. [provided by RefSeq, Dec 2016]

Product images:



Circular map for RC209032