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Product datasheet for RN209287

Sephs2 (NM_001079889) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Sephs2 (NM_001079889) Rat Untagged Clone

Symbol: Sephs2

Vector: pCMV6-Entry (PS100001)

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

Cell Selection: Neomycin

Fully Sequenced ORF:

>RN209287 representing NM_001079889
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGAAGCGGCGGCAGGCGCCAGCGGAGAAGCCATGGCGGCACTAGTGGCCGCGGAAGGTTCCTTGG
GCCCGGCGGGCTGGTCTGCTGGCCGGAGTTTCTCCAACTACCGGCCGTTCGAGCCCCAGACACTGGGCTT
CAGCCCGAGCTGGCGGCTGACGAGCTTCTCCGGCATGAAAGGCTGAGGCTGCAAGGTCCCCCAGGAGACC
CTGCTCAAACTCCTGGAGGGACTGACGCGGCCCGCGCTGCAGCCCCCGCTTACCTCGGGTCTGGTCGGGG
GCCAGGAAGAGACGGTGCAGGAAGGGGGCCTGACCACCAGGCCCGGCCCGGGCTCAGCCTTCCCCTCGCT
GAGCATTGGGATGGACTCCTGCGTCATCCCCCTGAGGCACGGAGGCCTGTCGCTGGTGCAGACCACCGAC
TTCTTTTACCCCTTGGTGGAAGATCCCTATATGATGGGGCGCATAGCTTGTGCCAATGTGCTCAGTGACC
TCTATGCCATGGGCATTACCGAGTGTGACAACATGTTGATGTTACTCAGTGTGAGCCAGAGCATGAGTGA
AAAGGAACGAGAGAAGGTAACGCCGCTCATGATCAAAGGCTTTCGTGACGCTGCGGAAGAGGGAGGAACT
GCAGTGACTGGTGGACAGACAGTGGTCAACCCTTGGATTATCATCGGTGGGGTTGCCACTGTGGTGTGTC
AGCAAAATGAATTCATAATGCCTGACAGCGCTGTGGTAGGAGATGTGCTGGTATTAACCAAGCCTTTAGG
AACCCAGGTTGCTGCCAATGCCCACCAATGGCTGGATAATCCTGAGAAATGGAATAAAATCAAGATGGTG
GTTTCCAGAGAGGAAGTAGAGCTAGCCTATCAGGAAGCTATGTTCAACATGGCTACTCTGAACAGGACTG
CTGCTAGCTTGATGCACACTTTTAATGCTCACGCAGCCACGGATATCACAGGCTTTGGCATATTAGGACA
CTCCCAGAACCTCGCAAAACAGCAAAAAAATGAAGTGTCCTTTGTCATTCACAATCTGCCAATCATTGCC
AAGATGGCTGCGATCAGCAAAGCCAGTGGGCGCTTTGGCCTCCTCCAAGGAACATCAGCTGAAACCTCTG
GGGGATTACTGATCTGTCTGCCAAGAGAACAGGCGGCCCGCTTTTGTTCGGAAATCAAATCTTCCAAGTA
CGGAGAGGGTCACCAAGCTTGGATTGTTGGCATCGTGGAGAAGGGAAACCGGACAGCCCGGATCATTGAC
AAGCCTCGCGTTATTGAAGTTCTACCTCGGGGAGCCTCTGCTTCTGCTGCTGCTGCTCCTGACAATTCCA
ATGCAGCCTCTGAGCCTAGTTCTTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

View online »

ACCN:	NM_001079889
Insert Size:	1356 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.
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_001079889.2, NP_001073358.2
RefSeq Size:	2342 bp
RefSeq ORF:	1356 bp
Locus ID:	308993
Cytogenetics:	1q37
Gene Summary:	This gene encodes an enzyme that catalyzes the production of monoselenophosphate (MSP) from selenide and ATP. MSP is the selenium donor required for synthesis of selenocysteine (Sec), which is co-translationally incorporated into selenoproteins at in-frame UGA codons that normally signal translation termination. The 3' UTRs of selenoprotein mRNAs contain a conserved stem-loop structure, the Sec insertion sequence (SECIS) element, which is necessary for the recognition of UGA as a Sec codon rather than as a stop signal. This protein is itself a selenoprotein containing a Sec residue at its active site, suggesting the existence of an autoregulatory mechanism. It is preferentially expressed in tissues implicated in the synthesis of selenoproteins and in sites of blood cell development. [provided by RefSeq, May 2017]