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Product datasheet for MC203276

Sephs2 (NM_009266) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sephs2 (NM_009266) Mouse Untagged Clone
Symbol:	Sephs2
Synonyms:	S; Sps2; Ysg; Ysg3
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>BC028966
GGTCCGGCTCGCGTGGTTGATCATCTCCTGGCGTAACCTTGGCCCGCTGTGGCTGGGAGACTCATCTGCA
GGTATCTGGGCCTTCTGGTCCGCACGGCCTCCCGGGCGAGCGGCGCGATGGCGGAAGCGGCGGCGGCGGG
CGCCAGCGGAGAAACCATGGCGGCGCTAGTGGCCGCAGAAGGTTCCTTGGGCCCGGCGGGCTGGTCTGCC
GGCCGGAGTTTCTCCAACTACCGGCCGTTCGAGCCCCAGACACTGGGCTTCAGCCCGAGCTGGCGGCTGA
CGAGCTTCTCCGGCATGAAGGGCTGAGGCTGCAAGGTCCCCCAGGAGACCCTGCTCAAACTCCTGGAGGG
ACTGACGCGGCCCGCGCTGCAGCCCCCGCTTACCTCGGGTCTGGTCGGGGGCCAGGAAGAGACGGTGCAG
GAAGGGGGCCTGTCCACCAGGCCCGGCCCCGGCTCAGCCTTCCCCTCGCTGAGCATTGGCATGGACTCCT
GCGTCATCCCCCTGAGGCACGGAGGCCTGTCGCTGGTGCAGACCACCGACTTCTTTTACCCCTTGGTGGA
AGATCCCTATATGATGGGGCGCATAGCTTGTGCCAATGTGCTCAGTGACCTCTATGCCATGGGTATCACT
GAGTGTGACAACATGTTGATGTTACTCAGTGTGAGCCAGAGCATGAGTGAAAAGGAACGAGAGAAGGTGA
CACCGCTCATGATCAAAGGCTTTCGTGACGCTGCGGAGGAGGGAGGCACTGCAGTGACCGGTGGACAGAC
AGTGGTCAACCCGTGGATTATCATCGGTGGCGTTGCCACGGTGGTGTGTCAGCAAAATGAATTCATAATG
CCTGATAGTGCCGTGGTAGGAGATGTGCTGGTATTAACCAAACCTTTAGGAACCCAGGTTGCTGCCAATG
CCCACCAATGGCTGGATAATCCTGAGAAATGGAATAAAATCAAGATGGTGGTTTCCAGAGAGGAAGTAGA
GTTAGCCTATCAGGAAGCTATGTTCAATATGGCTACTCTAAACAGGACTGCTGCTGGCTTGATGCACACT
TTTAATGCCCACGCAGCCACGGATATCACAGGCTTTGGCATATTAGGACACTCTCAGAACCTGGCAAAAC
AGCAAAAAAATGAAGTGTCCTTTGTCATACATAATCTGCCAATAATTGCCAAGATGGCTGCGATCAGCAA
AGCCAGTGGGCGCTTTGGCCTCCTCCAAGGAACGTCAGCTGAAACCTCTGGGGGATTACTGATTTGTCTG
CCAAGAGAGCAGGCGGCCCGCTTTTGTTCGGAAATCAAATCTTCCAAGTACGGAGAGGGTCACCAAGCTT
GGATCGTTGGCATCGTGGAGAAGGGAAACCGGACAGCCCGGATCATTGACAAGCCTCGCGTTATTGAAGT
TCTACCTCGGGGAGCCTCTGCTGCTGCTGCTGCTGCTCCTGATAATTCCAACGCAGCCTCTGAGCCTAGT
TCTTGAAATGGAATAGCGGTTGTTGGGAACTCGGAGCCATTCTACCCGCTCAGGGACTGCTGGCCAGGGT
TGATTTTAAGACCTTTCCAAAGGCTGCTTGCATGGTTCCTCCAGGCCCATCCAAAGCTTCCTGTATGTGC
ATCCAGGCCTGTGAGTAATGGCGCTGCGGATGTGTGTTCATCTGTTGAGAGCATGAGGAGCAAAAACCCG
TTTCCCAAAGCAAGAGGAGGCTATTTCAGTTTTAGGGATTTTTTTTTTTTTTTTTTTGCACTGAGTTG
ATTCATTTCTGCACAGGGAGTAAAGATTATTAAGATTACATATGAGAAAAGTAAACCTGCAACATGAAAA
ATTATTTGGACCAATATATTGATAAATCTAAATTGTTAGGAGAACTCTTACTGATTTATTGTCAAATTTG
TTATTAATTTTTTTCTGAGAAACTGCCTCTTTTCCTGTTCTGGACAAGAGTTGAGCAGCTTGTCCGACAG
GAAAGGAAGACTAGCCACCTGACTTGGTCTCTGATAATGATGTCTCTCCCTCTAACTCCCAGTAAGGACT
GGGAGAGGCTGAACAAACCTCAGAGCCAGGTGTCGGTGGCCATTGAATCTTACACTGAAACTTCTGGAGA
TTTAATTAATAAAGAGAATTTCTTACAGTAACTAAATAAAAGGGACTTTGTTGGAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_009266

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:	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:	BC028966, AAH28966
RefSeq Size:	2208 bp
Locus ID:	20768
UniProt ID:	P97364
Cytogenetics:	7 69.43 cM
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]