

Product datasheet for MR206112

Sephs1 (NM_175400) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sephs1 (NM_175400) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sephs1
Synonyms:	1110046B24Rik; AA589574; AI505014; AW111620; SELD; SPS; SPS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206112 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTACTCGAGAGTCCTTTAACC CGGAGACTTATGAATTGGACAAGAGCTTCCGGCTAAC CAGGTTTA
CTGAAGTCAAAGGCACAGGCTGCAAAGTCCCCAAGATGTCTACAGAACTGCTGGAATCTTTACAAGA
GAACCACTTCCAAGAAGATGAGCAGTTTCTGGGAGCTGTTATGCCAGACTTGGCATTGGGATGGATACT
TGCGTCATTCTTTGAGGCATGGTGGTCTTTCCTTGGTTCAGACCACAGATTACATTTATCCTATCGTCG
ACGACCCGTATATGATGGGCAGGATAGCATGTGCCAATGCCTCAGTGACCTTTATGCAATGGGTGTCAC
GGAGTGTGACAATATGCTGATGCTCCTTGGAGTCAGTAATAAAATGACTGACCGGGAGAGGGATAAAGTG
ATACCGCTAATTATACAGGGTTTTAAAGATGCGGCAGAGGAAGCGGGAACCTCTGTAACAGCGCGCCAAA
CGGTATTAACCCTGGATTGTTCTGGGAGGAGTCGCCACAACGGTCTGCCAGCCCAATGAATTTATCAT
GCCAGATAATGCAGTACCTGGGGATGTGCTGGTATTGACAAAGCCCTGGGGACACAGGTTGCAGTTGCT
GTGCACCAGTGGCTGGATATCCCGAAAATGGAATAAATAAGCTATTGGTCAACCAAGAAGACGTAG
AGTTGGCATACCAAGAGGCAATGATGAACATGGCCCGCTCAACAGGACAGCTGCAGGCCTCATGCACAC
GTTCAATGCTCATGCAGCCACTGACATCACCGGCTTCGGGATTCGGGCCACGCGAGAACCTGGCCAAG
CAACAGAGGAACGAAGTGCCTTCGTGATTCACAACCTTCCTGTGCTGGCGAAGATGGCCGCTGTGAGCA
AAGCCTGCGGAAACATGTTCCGGCCTAATGCATGGGACCTGCCAGAGACGTGAGGAGGCCTGCTAACTCG
TCTACCCCGTGAGCAAGCAGCTCGGTTCTGTGAGAGATCAAGTCCCCAAATACGGCGAAGGGCACCAA
GCATGGATTATTGGGATAGTGGAGAAGGCAACCCGACAGCCAGGATCATCGACAAGCCTCGGATTATTG
AAGTCGCACCTCAAGTAGCCACACAAAACGTGAACCCACACCTGGTCCACCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206112 protein sequence
 Red=Cloning site Green=Tags(s)

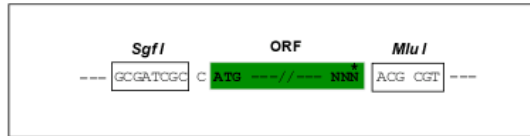
MSTRESFNPETYELDKSFRLTRFTELKGTGCKVPQDVLQKLLSLQENHFQEDEQFLGAVMPRLGIGMDT
 CVIPLRHGGLSLVQTTDYIYPIVDDPYMMGRIACANVLSLYAMGVTECDNMLMLLGVSNKMTDRERDKV
 IPLIIQGFKDAEEAGTSVTGGQTVLNPWIVLGGVATTVCQPNEFIMPDNAVPGDVLVLTkPLGTQVAVA
 VHQWLDIPEKWNKIKLLVTQEDVELAYQEAMNMARLNRTAAGLMHTFNAHAATDITGFGLGHAQNLAK
 QQRNEVSFVIHNLPLVLAkMAAVSKACGNMFLMHGTCPETSGGLLIICLPREQAARFCAEIKSPKYGEGHQ
 AWIIGIVEKGNRTARIIDKPRIIEVAPQVATQNVNPTPGATS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_175400

ORF Size: 1179 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.

RefSeq: [NM_175400.5](#), [NP_780609.3](#)

RefSeq Size: 5329 bp

RefSeq ORF: 1179 bp

Locus ID: 109079

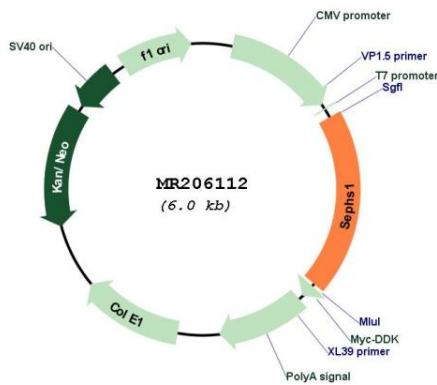
UniProt ID: [Q8BH69](#)

Cytogenetics: 2 A1

MW: 42.9 kDa

Gene Summary: Synthesizes selenophosphate from selenide and ATP.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206112