

Product datasheet for **SC209703**

Selenophosphate synthetase 2 (SEPHS2) (NM_012248) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	Selenophosphate synthetase 2 (SEPHS2) (NM_012248) Human 3' UTR Clone
Symbol:	Selenophosphate synthetase 2
Synonyms:	SPS2
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_012248
Insert Size:	780 bp
Insert Sequence:	>SC209703 3'UTR clone of NM_012248 The sequence shown below is from the reference sequence of NM_012248. The complete sequence of this clone may contain minor differences, such as SNPs. Blue =Stop Codon Red =Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAGCGATCGCC
TCAAATGCCTCCTCTGAGCCTAGCTCGTGAAGATGAAAGAACAGAAGTTGTTTGGACCTTAGAGCCATTG
TCCACAATCACGGATGGTTCTCAAGAGTTGATTGTAAGAAATTTCCAAAGAAGGCTGCCTGCATAGTGG
TTCCGGCTGCCCTTTCTAGGTGATTGGAATCAGCCCATCTAAAGCAGTCTTTATATGCATTCCGAGGCC
AGAGTAACATTTGAACTTTGGGGGATATTTGTTTCATCACTTGGGTAGAAGAGGAGCAAAAATACCTC
TGTTTTCTCTTGCCAAAGTAAGATGAAGCTATTCCAGGTTGAGGGATTTTCTTTGCACGGGGTTGATT
AATTTCTGCACAGGGAGTGAGATTATTAAGTAACACACACACAAAGTAAATTGCAAAATGAAAAAAT
TAGAAGCAAAATGAGTTTTGGACCAATATTGTTGATAAAATCTAAATTTGTTAAGAGAGATCTTATAATGCA
ACATCAAATTCCTTATTCAATTTTACTGAAGTACTGGCTCTTCTGCTCTGGACAAGAATTGAGCAAC
TTGTCTGATGACTGGGAAAGGAGGACCTGCAACCATCTGACTTGGTCTCTGTTAATGACGTCTCTCCCT
CTAAACCCCATTAAGGACTGGGAGAGGCAGAGCAAGCCTCAGAGCCCAGGCCTCAGTGGTCATTAAGAT
GTTAAGTCTTTTGGCGCAGATTCCTGGTGATTTGATCAATAAAGAGTAATTTCTTGCTAAATAAATAAA
AGAAACCTTGTTGAAAACTA
ACGCGTAAGCGGCCGCGCATCTAGATTGAAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTGATTCCACCGCCGCTTCTATGAAAGG

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Restriction Sites: Sgfl-Mlul



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	NM_012248.4
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. A pseudogene for this locus has been identified on chromosome 5. [provided by RefSeq, May 2017]
Locus ID:	22928
MW:	29.7