

Product datasheet for **RG231163**

Selenophosphate synthetase 1 (SEPHS1) (NM_001195602) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Selenophosphate synthetase 1 (SEPHS1) (NM_001195602) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SEPHS1
Synonyms:	SELD; SPS; SPS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG231163 representing NM_001195602 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATACTTGTGTCATTCCTTTGAGGCACGGTGGGCTTTCCTTGGTTCAAACCACAGATTACATTTACC
CGATCGTAGACGACCCTTACATGATGGGCAGGATAGCGTGTGCCAATGTCCTCAGTGACCTCTATGCAAT
GGGGGTCACGGAATGTGACAATATGCTGATGCTCCTTGGAGTCAGTAATAAAATGACCGACAGGGAAAGG
GATAAAGTGATGCCTCTGATTATCCAAGTTTTAAAGACGCAGCTGAGGAAGCAGGAACATCTGTAACAG
GCGGCCAAACAGTACTAAACCCCTGGATTGTCCTGGGAGGAGTGGCTACCACTGTCTGCCAACCCAATGA
ATTTATCATGCCAGACAATGCAGTGCCAGGGGACGTGCTGGTGCTGACAAAACCCCTGGGACACAGGTG
GCAGTGGCTGTGCACCAGTGGCTGGATATCCCTGAGAAATGGAATAAGATTAAGTGGTCACCCAAG
AAGATGTAGAGCTGGCCTACCAGGAGGCGATGATGAACATGGCGAGGCTCAACAGGACAGCTGCAGGACT
CATGCACACGTTCAATGCCACGCCGCGCCACTGACATCACGGGCTTCGGGATTTTGGGCCATGCGCAGAAC
CTGGCCAAGCAGCAGAGGAACGAGGTGTCGTTTGTAAATCACAACCTCCCGGTGCTGGCCAAGATGGCTG
CGGTGAGCAAGGCCTGCGGAAACATGTTTCGGCCTCATGCACGGGACCTGCCCGGAGACTTCAGGCGGCCT
TCTGATCTGTTTACCACGTGAGCAAGCAGCTCGGTTCTGTGCAGAGATAAAGTCCCCAAATATGGTGAA
GGCCACCAAGCATGGATTATTGGATTGTAGAGAAGGGCAACCGCACAGCCAGAATCATAGACAAACCCC
GGATCATCGAGGTCGCACCACAAGTGGCCACTCAAATGTGAATCCACACCCGGGGCCACCTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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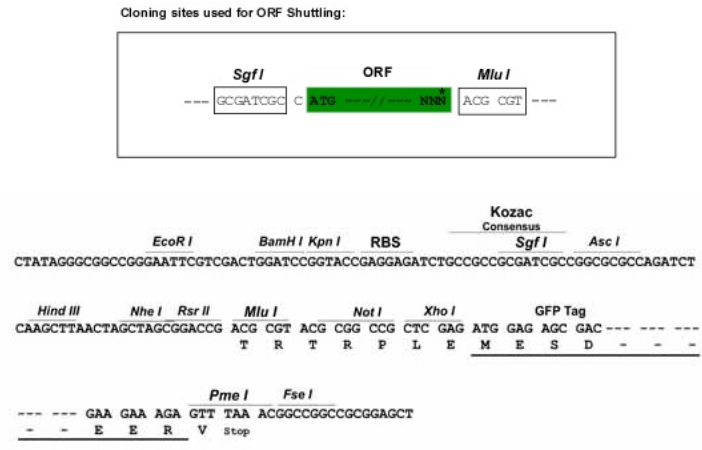
Protein Sequence: >RG231163 representing NM_001195602
 Red=Cloning site Green=Tags(s)

MDTCVIPLRHGGLSLVQTTDYIYPIVDDPYMMGRIACANVLSL YAMGVTECDNMLMLLGVSNKMTDRER
 DKVMP LI IQGFKDAAEEAGTSVTGGQTVLNPWIVLGGVATTVCQPNEF IMPDNAVPGDVL VLT KPLGTQV
 AVAVHQWLDIPEKWNKIKLVVTQEDVELAYQEAMNMARLNRTAAGLMHTFNAHAATDITGFGILGHAQN
 LAKQQRNEVSFVIHNLPLVLA KMAAVSKACGNMFGLMHGTCPETSGLLIICLPREQAARFCAEIKSPKYGE
 GHQAWIIGIVEKGNRTARIIDKPRIIEVAPQVATQNVNPTPGATS

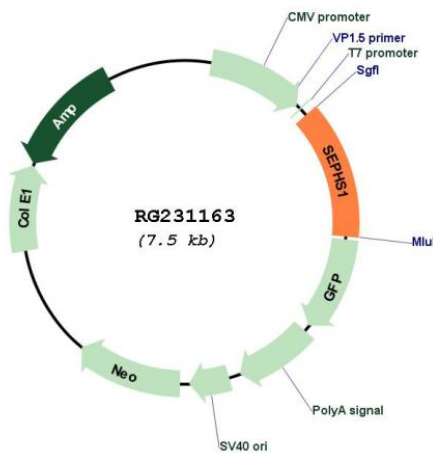
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001195602

ORF Size: 975 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:	<ol style="list-style-type: none">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_001195602.1 , NP_001182531.1
RefSeq Size:	3004 bp
RefSeq ORF:	978 bp
Locus ID:	22929
UniProt ID:	P49903
Cytogenetics:	10p13
Protein Families:	Stem cell - Pluripotency
Protein Pathways:	Metabolic pathways, Selenoamino acid metabolism
Gene Summary:	This gene encodes an enzyme that synthesizes selenophosphate from selenide and ATP. Selenophosphate is the selenium donor used to synthesize selenocysteine, which is co-translationally incorporated into selenoproteins at in-frame UGA codons. [provided by RefSeq, Sep 2010]