

Product datasheet for **MG202626**

Psph (NM_133900) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Psph (NM_133900) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Psph
Synonyms:	A1480570; PSP; PSPase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202626 representing NM_133900 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCTCCCACTCAGAGCTGAGGAAGCTCTTCTGTTTCAGCGGATGCAGTGTGCTTTGATGTTGATAGTA
CCGTATCAGAGAAGAAGGAATCGATGAGCTGGCCAAATCTGTGGTGTGGAGGCCGAGTGTCTGAAAT
GACACGAAGAGCCATGGGAGGAGCATTGCCTTTAAAGACGCACTCACTCAGCGCTTGGCACTGATCCAG
CCCTCCAGGGATCAAGTCCAGAGGCTCCTAGCTGAGCACCCGCCACATCTGACTCCTGGCATAAGGGAGC
TGGTAAGCCGCCCTCCAGGAGCGTAATGTCCAGGTGTTCCATCTCTGGTGGCTTTCGGAGCATTGTGGA
GCACGTTGCTGCAAAGCTCAATATCCCAACAACCAATGTGTTTGCCAATAGGCTGAAGTTCTACTTTAAT
GGTGAGTACGCAGGCTTTGATGAGATGCAGCCGACAGCCGAGTCGGTGGGAAAGGAAAGGTTTATTCGGT
TTTTAAAGGAAAAATTTCACTTTAAGAAAATAATCATGATTGGAGATGGAGCTACGGACATGGAAGCCTG
CCCTCCTGCCGATGCTTTCATTGGATTTGGAGGCAATGTGATCAGGCAGCAGGTTAAGGACAACGCCAAG
TGGTACATCACTGACTTCGTGGAGCTGCTGGGAGAAGTGGAGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202626 representing NM_133900
Red=Cloning site Green=Tags(s)

MVSHSELRLKLFCSADAVCFDVDSTVIREEGIDELAKFCGVEAAVSEMTRAMGGALPFKDALTQRLALIQ
 PSRDQVQRLLAEHPPHLTPGIRELVSRLQERNVQVFLISGGFRSIVEHVAAKLNIPPTNVFANRLKFYFN
 GEYAGFDEMPTAESGGKGVIRFLKEKFHFKKIIMIGDGATDMEACPPADAFIGFGGNVIRQQVKDNAK
 WYITDFVELLGELEE

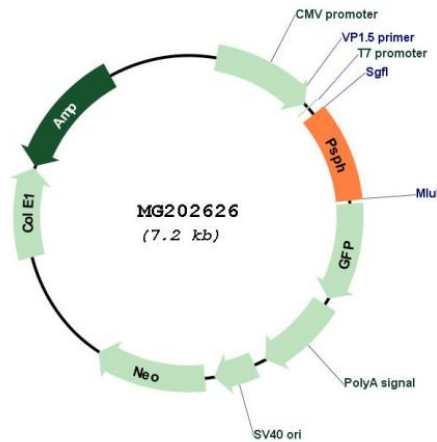
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_133900

ORF Size: 675 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_133900.1
RefSeq Size:	1484 bp
RefSeq ORF:	678 bp
Locus ID:	100678
UniProt ID:	Q99LS3
Cytogenetics:	5 G1.3
Gene Summary:	Catalyzes the last step in the biosynthesis of serine from carbohydrates. The reaction mechanism proceeds via the formation of a phosphoryl-enzyme intermediates (By similarity). [UniProtKB/Swiss-Prot Function]