

Product datasheet for **MG205503**

Pstk (NM_001039534) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pstk (NM_001039534) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Pstk
Synonyms: 5430423O14Rik; 5730458D16Rik; Gm1099; R75284
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG205503 representing NM_001039534
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGACCGGGCGGCTCGTGGGGCCACTCGCAGAGACGGACAGCCAACTAGGACTGTGCGTCTCT
 GCGGCTTGCCGGCGGCCGAAAGTCGACTTTTGCACGTGCGCTGGCCCTCCGCCTGCGCGGGAGCGGGG
 TTGGGCCGTGGGCGTCTCTCTACGACGATGTGCTGCCTTTGCGCTCCCGACTGCGATGGCACACAG
 CCTCGGCCATCCCAGTGAAAAATGTTCCGACAAGAAGTAAAGCACCTGGAATGCTTCTCGTGGCGG
 TCATTAGTGGGGCTCAGATGTCTGCCCCACCAACAGGACTGAGGCCGTGTGGGAAGACTTCATAACCTG
 CTTAAAAAGTCAGGATTTGATGATCTTTCTACAGCACTAGAGGCCAGCCTTGCCACCTTTGGCAAAA
 CCTGCTGTTTCTAGACCTTTGTTTTGGTGTAGATGACAACCTTTATTACCAAAGTATGAGATATGAAG
 TCTACCAACTGGCTCGGAAATATTCGCTAGGCTTTTGCCAGCTCTTTTACTGACTGTCCCCTGGAGACATG
 TTTGAAGAGGAATGGTGAGAGGTCCCAGCCACTGCCTGACGAGACCATCCAGCTCATGGGGAGAAAGATA
 GAGAAGCCCAACCCTGAGAAAAATGCCTGGGAACACAACAGCCTCATAATTCAGAGTTGAGCATGTTCTC
 TGAAGCCAGCCTGGAGGTGACTGGTTTGTGCTTACTGCATTGAAAAATCCCATAAAATGTGTTGAGGA
 TAATACAGAACAAAAGGAAACTGACAGAATTATCTGTTCTACTAACATCCTTCATAAAGCTGATGAGACA
 CTCCGAAGAAGTGTCTCAGACGATGAGGGAAGCCAAAGATGAACAAATACCTTAATAACTTGAAGC
 ATCTAGCAGAAGAACTTAACAAGCTCAAAGCAGATGTTTTGGAAGATCTAAGACAAGGAAATAGAAAATA
 TCTGTGCTTTTCAAGCAACTGACTTATCAGATATTATTTCTTTTGTAAAGGAGAGAGATACTATT
 GTGCAGAAGTATTTTTCAAAGCAACAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG205503 representing NM_001039534
Red=Cloning site Green=Tags(s)

MKTAAARGATRRDGQPKLGLCVLCGLPAAGKSTFARALALRLRRERGWAVGVL SYDDVLPALPDCDGTQ
 PRPSQWKMFQRELLKHLECF LVAVISGAQMSAPPNRTEAVWEDF ITCLKSQDLMIFFPTALEAQPCHLLAK
 PAVSRPLFLVLDNFYQSMRYEYVQLARKYSLGFCQLFLDCPLETCLKRNGERSQPLPDETIQLMGRKI
 EKPNEKNWEHNSLIIQSSACSLASLEVTGLLLTALENPIKCVEDNTEQKETDRIICSTNILHKADET
 LRRTVSQTMREAKDEQIPLNLLKHLAEELNKLKADVLEDLRQGNRKYLCFQQTTDLSDIISFCKERDTI
 VQKYFSKQH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001039534

ORF Size: 1077 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_001039534.1](#), [NP_001034623.1](#)

RefSeq Size: 1130 bp

RefSeq ORF: 1080 bp

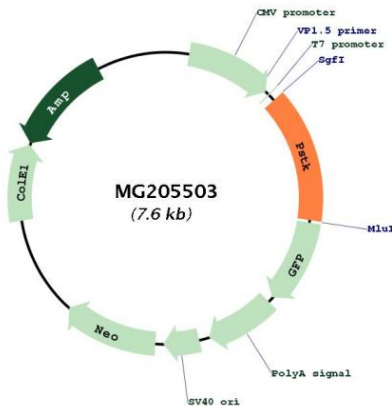
Locus ID: 214580

UniProt ID: [Q8BP74](#)

Cytogenetics: 7 F3

Gene Summary: Specifically phosphorylates seryl-tRNA(Sec) to O-phosphoseryl-tRNA(Sec), an activated intermediate for selenocysteine biosynthesis. No activity with other tRNAs has been detected. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG205503