

Product datasheet for **MG200948**

Pts (NM_011220) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pts (NM_011220) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Pts
Synonyms: PTPS
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG200948 representing NM_011220
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCGCGGGGTGACCTTCGTCGCCGCGCGACTGTCGCGCCTCGTGTCTTCAGCGCGAGCCACC
 GGCTGCACAGCCCATCTCTGAGCGATGAAGAGAACTTAAGAGTGTGGGAAATGCAACAATCCGAATGG
 CCACGGGCACAATAAAGTTGTGGTACAGTCCATGGAGAGATTGATCCTGTTACAGGAATGGTTATG
 AATTTGACCGACCTCAAAGAATACATGGAGGAGCCATCATGAAGCCTTTGATCACAAGAACCTGGACC
 TGGATGTGCCGTACTTTGCGGATGCTGTGAGCAGCAGACAGAAAATGTAGCTGTCTACATCTGGAAAGCCT
 CCAGAAACTTCTCCAGTGGGAGCTCTTATAAAGTAAAAGTGTGGAAACCGACAACAACATCGTAGTC
 TATAAAGGAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200948 representing NM_011220
 Red=Cloning site Green=Tags(s)

MSAAGDLRRRRLSRLVSFSASHRLHSPSLSDEENLRVFGKCNNPNHGHNKVVVTVHGEIDPVTGMVM
 NLTDLKEYMEEAIMKPLDHNLDLDPYFADAVSTTENVAVYIWESLQKLLPVGALYKVKVFETDNNIVV
 YKGE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

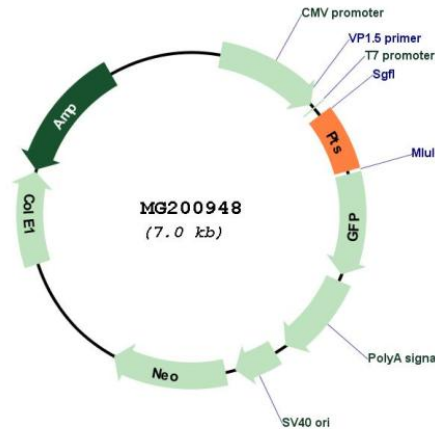


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Cloning Scheme:



Plasmid Map:



ACCN: NM_011220

ORF Size: 432 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:	<u>NM_011220.3</u>
RefSeq Size:	1051 bp
RefSeq ORF:	435 bp
Locus ID:	19286
UniProt ID:	<u>Q9R1Z7</u>
Cytogenetics:	9 A5.3
Gene Summary:	Involved in the biosynthesis of tetrahydrobiopterin, an essential cofactor of aromatic amino acid hydroxylases. Catalyzes the transformation of 7,8-dihydroneopterin triphosphate into 6-pyruvoyl tetrahydropterin.[UniProtKB/Swiss-Prot Function]