

Product datasheet for MR200948

Pts (NM_011220) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pts (NM_011220) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Pts
Synonyms: PTPS
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR200948 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCGCGGGGTGACCTTCGTCGCGCGCGGACTGTCGCGCCTCGTGTCTTCAGCGCGAGCCACC
GGCTGCACAGCCCATCTCTGAGCGATGAAGAGAACTTAAGAGTGTGGGAAATGCAACAATCCGAATGG
CCACGGGCACAATAAAGTTGTGGTACAGTCCATGGAGAGATTGATCCTGTTACAGGAATGGTTATG
AATTTGACCGACCTCAAAGAATACATGGAGGAGCCATCATGAAGCCTTTGATCACAAGAACCTGGACC
TGGATGTGCCGTACTTTGCGGATGCTGTGAGCAGCAGACAGAAAATGTAGCTGTCTACATCTGGAAAGCCT
CCAGAAACTTCTCCAGTGGGAGCTCTTATAAAGTAAAAGTGTGGAAACCGACAACAACATCGTAGTC
TATAAAGGAGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR200948 protein sequence
 Red=Cloning site Green=Tags(s)

MSAAGDLRRRARLSRLVSFSASHRLHSPSLSDEENLRVFGKCNNPNHGHNYKVVVTVHGEIDPVTGMVM
NLTDLKEYMEEAIMKPLDHNLDLDPYFADAVSTTENVAVYIWESLQKLLPVGALYKVKVFETDNNIVV
YKGE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:



ACCN: NM_011220

ORF Size: 435 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_011220.3](#)

RefSeq Size: 1051 bp

RefSeq ORF: 435 bp

Locus ID: 19286

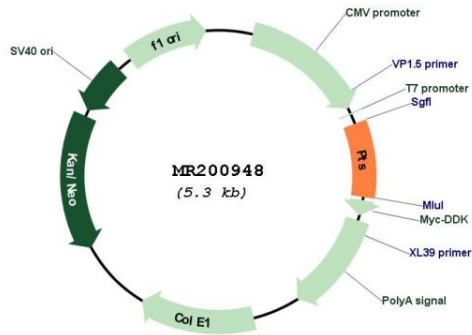
UniProt ID: [Q9R1Z7](#)

Cytogenetics: 9 A5.3

MW: 16.2 kDa

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]

Product images:



Circular map for MR200948