

Product datasheet for MR202986

Qdpr (NM_024236) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Qdpr (NM_024236) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Qdpr
Synonyms:	2610008L04Rik; D5Erttd371e; Dhpr; PKU2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202986 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCTTCAGGCGAGGCGCGCCGGGTGCTGGTGTACGGCGGCAGGGGCGCTCTGGGCTCGCGCTGCG
TACAGGCCTTCGGGCCCGCAACTGGTGGGTGCCAGCATCGATGTGGTGGAGAACAAGAGGCCAGTGC
CAGCGTGGTTGTTAAGATGACAGATTCATTCACAGAGCAGGCTGACCAGGTCAGTCTGATGTTGGAAAG
CTCCTAGGTGACCAGAAGGTGGATGCAATTCCTGTGTGGCTGGAGGATGGGCCGGGGCAATGCCAAAT
CCAAGTCGCTTTTAAAACTGTGACATGATGTGGAAGCAGAGTATGTGGACATCCACTATCTCCAGCCA
CTTGCCACAAAGCACCTGAAGGAAGGAGGCCTTTGACCTGGCTGGGGCCAAAGCTGCCTTGGATGGG
ACTCCTGGGATGATCGGCTATGGCATGGCCAAGGAGCCGTCCATCAGCTCTGCCAGAGCCTGGCAGGGA
AGAACAGTGGCATGCCCCCTGGGGCTGCTGCCATTGCTGTGCTCCCCGTTACCCTGGATACCCCGATGAA
CAGGAAATCAATGCCTGAGGCAGACTTCAGCTCCTGGACACCCTTAGAGTTCTGGTGGAAACCTTCCAT
GACTGGATCACTGGGAACAAACGGCCAAACTCAGGAAGCCTAATCCAGGTGGTAACCACAGATGGGAAGA
CAGAGCTTACTCCAGCATATTTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202986 protein sequence
Red=Cloning site Green=Tags(s)

MAASGEARRVLVYGGRGALGSRCVQAFRARNWWVASIDVVENEEASASVVVKMTDSFTEQADQVTADV GK
 LLGDQKVDAILCVAGGWAGGNAKSKSLFKNCDDMMWKQSMWTSTISSHLATKHLKEGGLLTLAGAKAALDG
 TPGMIGYGMAGAVHQLCQSLAGKNSGMPPGAAAIAVLPVTLDTMPNKRKSMPEADFSSWTPLEFLVETFH
 DWITGNKRPNSSGLIQVVTDDGKTELTAYF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_024236

ORF Size: 726 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_024236.2](#), [NP_077198.1](#)

RefSeq Size: 1394 bp

RefSeq ORF: 726 bp

Locus ID: 110391

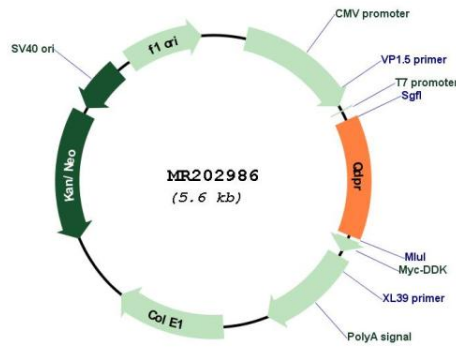
UniProt ID: [Q8BVI4](#)

Cytogenetics: 5 24.9 cM

MW: 25.6 kDa

Gene Summary: The product of this enzyme, tetrahydrobiopterin (BH-4), is an essential cofactor for phenylalanine, tyrosine, and tryptophan hydroxylases.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202986