

Product datasheet for SC123801

QDPR (BC000576) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	QDPR (BC000576) Human Untagged Clone
Tag:	Tag Free
Symbol:	QDPR
Synonyms:	DHPR; PKU2; SDR33C1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for BC000576 edited
 GGGAGCCGGGCTGGCAGGAGCAGGATGGCGGCGGCGGCTGCAGGCGAGGCGGCGCGG
 GTGCTGGTGTACGGCGGCAGGGCGCTCTGGGTTCTCGATGCGTGCAGGCTTTTCGGGC
 CGCAACTGGTGGGTTGCCAGCGTTGATGTGGTGGAGAATGAAGAGGCCAGCGCTAGCATC
 ATTGTTAAAATGACAGACTCGTTCAGTACGAGGCTGACCAAGGTGACTGCTGAGGTTGGA
 AAGCTCTTGGGTGAAGAGAAGGTGGATGCAATTCTTTCGCTTGGTGGAGGATGGGCGGG
 GGCAATGCCAAATCCAAGTCTCTCTTAAAGAACTGTGACCTGATGTGGAAGCAGAGCATA
 TGGACATCGACCATCTCCAGCCATCTGGCTACCAAGCATCTCAAGGAAGGAGGCTCCTG
 ACCTTGGCTGGCGCAAAGGCTGCCCTGGATGGGACTCCTGGTATGATCGGGTACGGCATG
 GCCAAGGGTGCTGTTACCAGCTCTGCCAGAGCCTGGCTGGGAAGAAGCAGCGGCATGCCG
 CCCGGGCGAGCCGCATCGCTGTGCTCCCGGTTACCCTGGATACCCCGATGAACAGGAAA
 TCAATGCCTGAGGCTGACTTCAGCTCCTGGACACCCTTAGAATTCCTAGTTGAAACTTTC
 CATGACTGGATCACAGGGAAAAACCGACCGAGCTCAGGAAGCCTAATCCAGGTGGTAACC
 ACAGAAGGAAGGACGGAACCTCACCCAGCATATTTTTAGGCCTCATCTCAGTGCCTATGA
 GGGGCTGCCAGAAAAGTCACTAACCTGTCTCAGTGTGGCCTTGTCCAGCCTTGTGTTTT
 CTGTAACCCCTGTTTGGTACGAGATAATGAGTCCTATTTTTCTCTCACATAATATGCA
 TTTGCTCCTAGGACAGTGAATACATTTATGTGAAGTAAAGACATGCGAGACTGGTGG
 CCTGCAAAATAGCATCCGTCAATCTGTGTTAACTGCATAGGGAGGGCTCTGCATAGCACCT
 GCTATAGCGGTGCATGTTGGATCGCTTTTGTGACTGTTTATGCTCCTTGACAGTGGCT
 GTCATCTTGACTACTTTGTTGATTTGTTGGTATTGGGGACATTTTAAAGGCTGAGTTATT
 TTTGAATGTCATGTTTATGTCATAGACGTAGTTTTCGCATCCTTGAATTAAGTGCCTTA
 ACTCCTTTTGTGGTATAAGCAAACTCCATGGACTCTGCTCCTGGTATCCTTTTCTGTGT
 GGTGGCCCTGTGCTCTGGCCTAGGGTTAAGTGTGCAAGATAACTACTCGTGAGTATTC
 AGAATGTTGTTCCCTAATAAAATGCACTTGTGTCTGCTCTTTAAAAA
 AAAAA



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5' Read Nucleotide Sequence:	>OriGene 5' read for BC000576 unedited NGTACAGTACAAAATTTGTATACGACTCACTATAGGCGGCCGCGNAATTCGCACGAGGGG AGCCGGGCTGGCAGGAGCAGGATGGCGGCGGCCGGCTGCAGGCGAGGCGCCGGGTG CTGGTGTACGGCGGCAGGGGCGCTCTGGTTCTCGATGCGTGCAGGCTTTTCGGGCCGC AACTGGTGGGTTGCCAGCGTTGATGTGGTGGAGAATGAAGAGGCCAGCGCTAGCATCATT GTTAAAAATGACAGACTCGTTCACTGAGCAGGCTGACCAGGTGACTGCTGAGGTTGAAAAG CTCTTGGGTGAAGAGAAGGTGGATGCAATTCCTTTCGCTGGAGGATGGGCCGGGGC AATGCCAAATCCAAGTCTCTCTTTAAGAACTGTGACCTGATGTGGAAGCAGAGCATATGG ACATCGACCATCTCCAGCCATCTGGCTACCAAGCATCTCAAGGAAGGAGCCTCCTGACC TTGGCTGGCGCAAAGGCTGCCCTGGATGGGACTCCTGGTATGATCGGGTACGGCATGGCC AAGGGTGTGTTACCAGCTCTGCCAGAGCCTGGCTGGGAAGAACAGCGGCATGCCGCC GGGGCAGCCGCCATCGTGTGCTCCCGTTACCCTGGATACCCCGATGAACAGGAAATCA ATGCTGAGGCTGACTTCAGCTCCTGGACACCCTAGAATTCCTAGTTGAAACTTCCAT GACTGGATCACAGGAAAAACCGACCGAGCTCAGGAAGCCTAATCCAGGTGTAACCCAC AGAGGAAGGACCGAACTACCCAGCATATTTTAGGCCTCATCTATTGCCTATGAAGG GCCTGNCCAAAAGTCACTTACCTGTCTCAGTGTGGCCTTGTCAGCCCTGGTGTCTG TAACC
Restriction Sites:	Please inquire
ACCN:	BC000576
Insert Size:	1394 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	BC000576.2 , AAH00576.1
RefSeq Size:	1385 bp
Locus ID:	5860
Cytogenetics:	4p15.32
Protein Families:	Druggable Genome
Protein Pathways:	Folate biosynthesis, Metabolic pathways

Gene Summary:

This gene encodes the enzyme dihydropteridine reductase, which catalyzes the NADH-mediated reduction of quinonoid dihydrobiopterin. This enzyme is an essential component of the pterin-dependent aromatic amino acid hydroxylating systems. Mutations in this gene resulting in QDPR deficiency include aberrant splicing, amino acid substitutions, insertions, or premature terminations. Dihydropteridine reductase deficiency presents as atypical phenylketonuria due to insufficient production of biopterin, a cofactor for phenylalanine hydroxylase. [provided by RefSeq, Jul 2008]