

Product datasheet for **RR206996**

Dph6 (NM_001014181) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Dph6 (NM_001014181) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Dph6
 Synonyms: Atpbd4; RGD1310006
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RR206996 representing NM_001014181
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGGTCGCAGCCCTGATCAGTGGTGGGAAGGACAGCTGTTACAACATGATGCGGTGCATTGCCGAGG
 GGCACCAAATTGTTGCATTAGCAAATCTAAGACCAGATGACAACCAAGTGGAGTCAGATGAACTGGATAG
 CTACATGTATCAGACAGTGGGTACCATTGCCATTGACTTGTATGCTGAGGCAATGGCCCTGCCCTGTAT
 CGCAGAACCATCAGAGGAAGGAGCTTGGAGACGGGAAGAGTGTATACCAGATGTGAAGGTGATGAGGTTG
 AAGATCTCTATGAACTATTAAGCTCGTTAAGGAAAAAGAAGAAATAGAAGGGGTATCAGTAGGTGCTAT
 ACTTTCTGACTATCAGCGTGTACGAGTAGAAAATGTATGTAACGACTCAATCTCCAGCCTTTAGCTTAC
 CTTTGGCAGAGAAACCAGGAAGATTTGCTCCGAGAGATGATAGCATCTAATATCGAGGCTATTATCATCA
 AAGTAGCAGCTTTGGCTTGGATCCTGATAAGCATCTTGGAAAAACCCTGGGTGAAATGGAACCTTATCT
 TTTAGAGCTCTCCAAGAAGTATGGTGTCCATGTGTGTGGAGAAGGTGGGAGTATGAGACGTTACATTG
 GACTGCCCTCTGTTCAAGAAGAAGATCGTTGTGGACACTTCTGAGGCAGTCATCCATTAGCCGATGCAT
 TTGCACCTGTGGCTTATCTGCGGCTCTCAGGGCTGCAC TTGGAAGAGAAGGTGTCTTCAGTACCTGGGA
 TGATGAAACAAC TAGTTATATACACAATTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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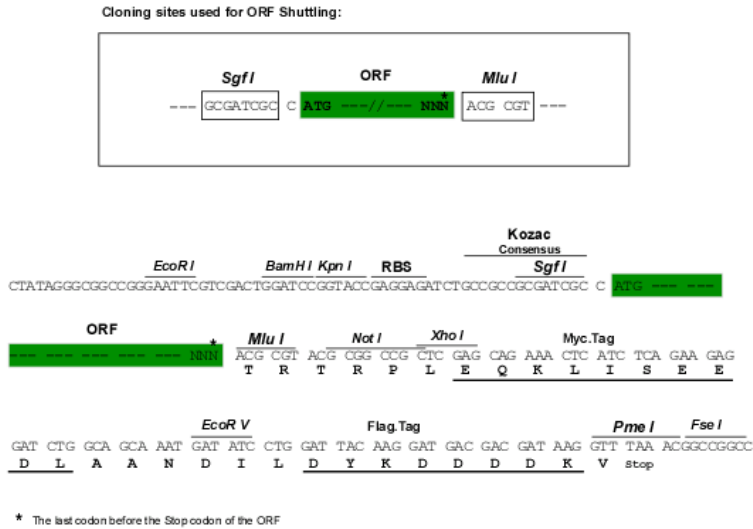
Protein Sequence: >RR206996 representing NM_001014181
 Red=Cloning site Green=Tags(s)

MRVAALISGGKDCSCYNMRCIAEGHQIVALANLRPDDNQVESDELDSYMYQTVGHHAILDYAEAMALPLY
 RRTIRGRSLETGRVYTRCEGDEVEDLYELLKLVKEKEEIEGVSVGAILSDYQVRVVENVCKRLNLQPLAY
 LWQRNQEDLLREMIASNIEAIIKVAALGLDPDKHLGKTLGEMEPYLLELSKKYGVHVCGEYETFTL
 DCPLFKKKIVVDTSEAVIHSADAFAPVAYLRLSGLHLEEKVSSVPGDDETTTSYIHNS

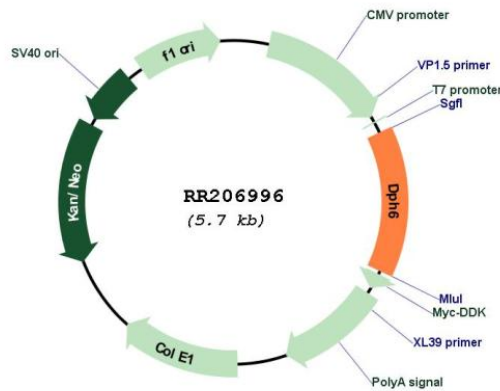
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001014181
 ORF Size: 801 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:	NM_001014181.1 , NP_001014203.1
RefSeq Size:	2512 bp
RefSeq ORF:	804 bp
Locus ID:	362191
UniProt ID:	Q5M9F5
Cytogenetics:	3q35
MW:	30 kDa
Gene Summary:	Amidase that catalyzes the last step of diphthamide biosynthesis using ammonium and ATP. Diphthamide biosynthesis consists in the conversion of an L-histidine residue in the translation elongation factor eEF-2 (EEF2) to diphthamide (By similarity).[UniProtKB/Swiss-Prot Function]