

## Product datasheet for **MR223208**

### Dph6 (NM\_025675) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Dph6 (NM\_025675) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Dph6  
**Synonyms:** 5730421E18Rik; Atpbd4  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR223208 representing NM\_025675  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAGGGTCGCGCCCTGATCAGTGGTGGGAAGGACAGCTGTTACAACATGATGCAGTGCATTGCTGAGG  
GGCATCAAATTGTTGCATTAGCAAATCTAAGACCAGATGAAAACCAAGTGGAGTCAGATGAACTGGATAG  
CTATATGTATCAGACAGTGGGTACCATGCCATTGACTTGTATGCTGAAGCAATGGCGCTGCCCTGTAT  
CGCAGAGCCATCAGAGGAAGGAGCTTGGAGACAGGAAGAGTTTATACGCAATGTGAAGGTGACGAGGTTG  
AAGATCTCTATGAACTGTTGAACTTGTAAAGGAAAAAGAAATCGAAGGGGTATCAGTAGGTGCTAT  
ACTCTCTGACTATCAACGTGGACGAGTAGAAAATGTATGTAACGACTCAATCTCCAGCCTTTAGCTTAT  
CTTTGGCAAAGAAACCAGGAAGATTTGCTCCGAGAGATGATAGCTTCTAATATCAAGGCCATTATCATCA  
AAGTAGCAGCTTTGGCCTTAGATCCTGATAAGCATCTTGGGAAAACCTGGTTGAAATGGAGCCTTATCT  
TTTAGAGCTTTCTAAGAAGTACGGTGTCCACGTGTGTGGAGAAGGTGGAGAGTATGAGACATTACGTTG  
GACTGCCCTCTATTCAAGAAGAAGATTGTTGTGGACTTTCAGAAGCAGTCATGCACTCAGCGGATGCAT  
TCGCACCTGTGGCTTATCTGCGGCTCTCCCGCTGCAC TTGGAAGAGAAAGTGTGTCGTCAGTACCTGCGGA  
TGATGAAACAGCTAACTTATACACAGCTCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR223208 representing NM\_025675  
 Red=Cloning site Green=Tags(s)

MRVAALISGGKDCSCYNMMQCIAEGHQIVALANLRPDENQVESDELDSYMYQTVGHHAILDYAEAMALPLY  
 RRAIRGRSLETGRVYTQCEGDEVEDLYELLKLVKEKEEIEGVSVGAILSDYQRGRVENVCKRLNLQPLAY  
 LWQRNQEDLLREMIASNIKAI I I KVAALGLDPDKHLGKTLVEMEPYLLEL SKKYGVHVCGE GGEYETFTL  
 DCPLFKKKIVVDSSEAVMHSADAFAPVAYLRLSRLHLEEKVSSVPADDETANSIHSS

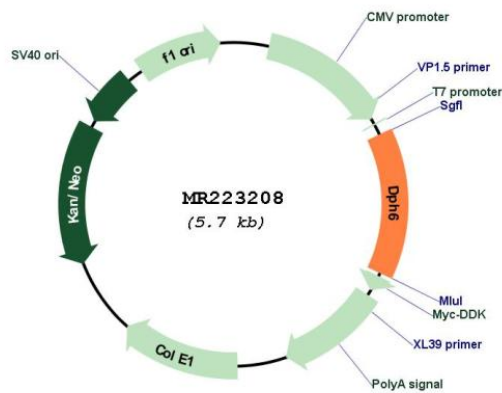
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_025675  
 ORF Size: 801 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_025675.5</a>
<b>RefSeq Size:</b>	2700 bp
<b>RefSeq ORF:</b>	804 bp
<b>Locus ID:</b>	66632
<b>UniProt ID:</b>	<a href="#">Q9CQ28</a>
<b>Cytogenetics:</b>	2 E4
<b>MW:</b>	30.4 kDa
<b>Gene Summary:</b>	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 2 (EEF2) to diphthamide (By similarity).[UniProtKB/Swiss-Prot Function]