

Product datasheet for **MG207826**

Dph2 (NM_026344) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dph2 (NM_026344) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dph2
Synonyms:	9130020C19Rik; AI467389; Dph2l2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG207826 representing NM_026344
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGTCTACGTTTCAGCAGCCCTGCGGAGGCAGCCCTGCAACGGGAGGCGGGCGTTCCAGGACAGTTCA
 CTCTCCTGAAGACCTGGACCGCGTGTATGAGCTGGAGCGAGTTACGAAATTTGTCTGCGATTTAGGTTG
 TCAGCGGGTGACTTTGCAGTTCCCTGACCAGTTACTAGGAGATGCGGGAGCGGTGGCTGCCCGGCTGGAG
 GAAGTCACAGGAGCTAAGATGTTCAATTTAGGGGACACAGCTTATGGCAGCTGCTGTGTGGATGTCTGG
 GCGCCGAGCAGGCTGGAGCTCAAGCCCTTGTGCACTTCGGTCTGCTGCTTAAGCCCCCAGCCTCGCA
 GCTGCCATCACCTTTGCTTGGTCAGCGACCCGTTGCTTTAGAGCTCTGTGCAAAGGCCCTTTGAAGCC
 CAGAACCAGATCCGACAGCCCCGGTACTGCTGAGTGAAGCAGCTTGTGCCATGCCCTAGAGCCTT
 TGGCCATGCTCCTGCTCCAAAGTACCAAGATCTGCTCATCTCCCGCCAGCTCTTCCCCTGCCAGTGGG
 ATCCCCGAGCTCACAGCCTGAGTCCCTGGAGCGTTTTGGGCGCTGCTTCCCCTGAATCCAGGGAGAGCT
 CTGGAAGAATATGGTGCCTTCTATGTAGGGGCTTCTCAAGCAAGCTCGGACTCCAGCCTTGATCCCAGC
 TGAGCAGACTGCTTGGGTTGGACACCAGGGCGGCCCTTCTTTTCTGTGTCCAGATACAGGACAGAC
 ACAAGACCAGGGTGCCAAGGCTGGGAGACTAAGAGCACGAAGACTGTATCTCATAGAGAGGGCCAGAGAT
 GCCCGTGTGGTTGGGCTGCTGCCAGGCATATTAGGTGTGGCTCGACACCGTGAGGCACTGGCACACTTGC
 GGAAACTGACGGAAAGCTGCTGGAAAACGTAGCTATGTGTTAGCCGTGGGGAAGCCACACCCGCCAAGCT
 TGCCAACCTCCCTGAGATGGACGCTTTGTGCTGTTAGCCTGTCCCCTGGGGGCACTAGCCCCCAGCCT
 TCGGGTGGCTTCTTTCGGCCTGTATTGACGCCATGTGAATTGGAGGCTGCCTGCAACCCTGCCTGGCCCC
 CGCCAGCCTGGCTCCCCACCTCACACATTATGCAGAGCTGTTGCCTGTTTCTCCCTTCCATGTGCC
 CCTCCACCTGAGTCAGAGTTGTGGATACCCAGATGTGTCACCTATTCTGGGGAGCTCCGACCACCA
 CCTCCTTGGAAAGTCATCAGATGACACTAGATGTTGCGCCTTAATTCGAGGCCCAACTGGAGCTGGCGG
 AGAGCAGCCTGCAGCTTCACTCCTTAGTTCTCGGAACTGGCAGGGGCTGGAGCCACGCTTGGGCCAGAC
 ACCAGTAAAGAAGCCGTCAGAGGAAGACGAGGTATCGCCATCGCCTACGAGGATGAGGGGAGCAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207826 representing NM_026344
 Red=Cloning site Green=Tags(s)

MESTFSSPAEALQREAGVPGQFTPPEDLDRVYELERVTKFVCDLGCQRVTLQFPDQLLDAGAVAAARLE
 EVTGAKMFI LGDTAYGSCCVDLGAEQAGAQUALVHFGPACLSPPASQLPITFVLGQRPVALELCAKAFEA
 QNPDPAPTAVVLLSEPAHALEPLAMLLL PKYQDLLISR PALPLPVGSPSSQPESLERFGRCFPLNPGRR
 LEEYGAFYVGASQASSDSSLDLDPDL SRRLLGWTPGRPFSCCPDTGQTQDQGAKAGRLRARRLYLIERARD
 ARVVGLLAGILGVARHREALAHLRKL TEAAGKRSYVLAVGKPTPAKLANFPEMDVFVLLACPLGALAPQP
 SGGFFRPVLTPELEAACNPAWPPPGLAPHLTHYAE L L PGSPFHVPLPPPESELWDTPDVSLISGELRPP
 PPWKSSDDTRCSALIPRPQLELAESSPAASFLSSRNWQGLEPRLGQTPVKEAVRGRRGIAIAYEDEGSS

TRTRPLE – GFP Tag – V

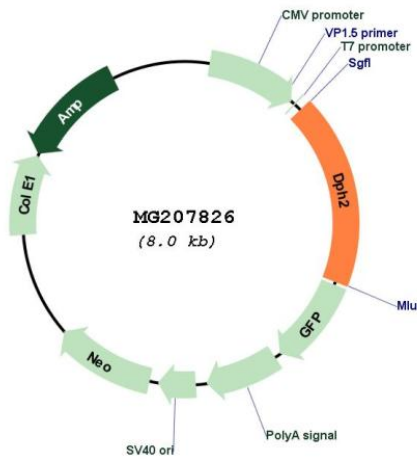
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_026344

ORF Size: 1467 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_026344.2](#), [NP_080620.1](#)

RefSeq Size: 2527 bp

RefSeq ORF: 1470 bp

Locus ID: 67728

UniProt ID: [Q9CR25](#)

Cytogenetics: 4 D2.1

Gene Summary: Required for the first step in the synthesis of diphthamide, a post-translational modification of histidine which occurs in translation elongation factor 2 (EEF2).[UniProtKB/Swiss-Prot Function]