

Product datasheet for **MG217540**

Dph7 (NM_026044) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dph7 (NM_026044) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dph7
Synonyms:	2810443J12Rik; AW060693; Wdr85
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG217540 representing NM_026044
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGGTAGCCACGCAGGGACGTTGCGAGTCTGCAGGCAGTAGACACTGAGCTTACCGCGGACTCGG
 TGGAAATGGTGCCAGTAGAAGGTTACCAGCATCTGCTGGCCTGCGGAACCTACCAGCTGCGAGCGCCAG
 GGACCAGCTGCACTGGATGGCAGTGAGCCTCAAGTTCGTTTAGGTCGTCTCTACCTGTTGAGCTTCAGT
 GAGCACAACACGGCTAAACCTCTGCTTGAGGTCCAAAGAAGGGACTCTTCTGCTGTCTGGACATGAAAT
 GGTGCCACATCCCAGTCTCTGGCCATGTGCTTTTAGGCTTGGCAAACGCCAGTGGATCCATAGGGCTGCT
 CCGCTGATGGAATGTGAGAACAACAGTTACACCCTGCAGCCAATATCCAGCCTCGCCCTGGATGAGAAT
 TGTCTGCTTGTCAATGGATTGGTCCACTGGGAAATCTGTCAGGGCCAGAGAACAGCCCTGAAGATCA
 TTAGCAGTGATTCTAAGGGCAGTTGCACCTCCTGATGGTGAATGAGGGCACAGCTGAACACAGCTAGT
 AGCATCTTGGCCAGCCATCACTTTGAGGCCTGGATTGCTGCTTCAATTACTGGCAGACAGAACTCGTG
 TATTACAGGGGAGATGACTGCCTTCTGAGAGGCTGGGACACTAGGATGCTGGGCACACCTGTCTTACTA
 GCAAAAGACATTGCATGGGTGTGTGCAGCATCCAGAGCAGCCCCATCAGGAGCATATACTGGCAACTGG
 AAGCTATGATGAGCATGTTCTGCTGTGGGACACTCGAAACATAAGACAGCCATTGGCGGATGTACCAGTG
 CAAGGAGGTGTGTGGAGGCTCAAGTGGCACCCAGTTACCACCATCTACTCCTGGCGGCCTGCATGCACA
 ATGGCTCAAGATTCTCAACTGCCAGAAGGCCATTGAGGAGAAGCAGGACATAACTGTTTTAACATCCCA
 CGAAATGCCTAACTATTAGTATATGGGGCTGACTGGTCTGGCTTTTCCATTCCATGAAGCCACTCCT
 ACCTGGTTCTTTGATCAGAATGACATGGGAGTCAAAGCAGCAGACCCTTAGCCTAAAGGTCACAGAGG
 AGCCACCAATACATTCTCAGGAACAACCATGGATCGCCAAGTGGAAAGGCCCCGTAACGCTCATACCAG
 AGCTGAAGTGAAGGCTTCTCCTTCCATTAACAGAGGACATGAAAAACAGCAAAGACTGCTCCTCATCC
 TCAGTCAAGACTCGTGATCTTAGCCACTGCTCTGGTGGGACAGCTTTGACAATAGCCTCCTGGCCACCT
 GCTCCTTTATGACCATGTTCTCCACCTTTGGAAGTGGGAGACGAATCAAGCTCGCACTCTTTCAGTGG
 CACTGGATGTGATTTGGGGAGTGTGACCAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG217540 representing NM_026044
 Red=Cloning site Green=Tags(s)

MAGSHAGTLRVLQAVDTEL TADSVIEWCPVEGYQHLLACGTYQLRAPRDQPALDGSEPVRLGRLYLFSFS
 EHNTAKPLLEVQRRDSSAVLDMKWCHIPVSGHVLLGLANASGSIGLLRLMECENNSYTLQPISSLALDEN
 CLSL SMDWSTGKSVRAREQPLKIISSDSKQHLHLLMVNEGTAELQLVASWPAHHFEAWIAAFNYQTTEL V
 YSGDDCLLRGWDTRMLGTPVFTSKRHCMGVCSIQSSPHQEHILATGSYDEHVLLWDTRNIRQLADVPV
 QGGVWRLKWHPVHHHLLLAACMHNGFKILNCQKAIIEEKQDITVLT SHEMPNSLVYGADWSWLFHSMKPTP
 TWFFDQNDMGVKAADHSSLKVTEEPPIHSQEQTMDRQVEGPANAHTRAELKASLLPLTEDMKNSKDCSSS
 SVKTRDLSHCSGGQSFDNSLLATCSFYDHVHLHWKWTNQARTLCSGTGCDLGSADH

TRTRPLE – GFP Tag – V

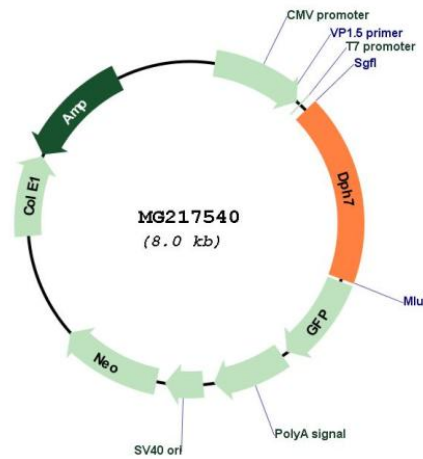
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_026044

ORF Size: 1431 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_026044.4](#)

RefSeq Size: 2952 bp

RefSeq ORF: 1434 bp

Locus ID: 67228

UniProt ID: [Q9CYU6](#)

Cytogenetics: 2 A3

Gene Summary: Catalyzes the demethylation of diphthine methyl ester to form diphthine, an intermediate diphthamide biosynthesis, a post-translational modification of histidine which occurs in translation elongation factor 2 (EEF2).[UniProtKB/Swiss-Prot Function]