

Product datasheet for **RN215553**

Dph2 (NM_001015007) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dph2 (NM_001015007) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Dph2
Synonyms:	Dph2l2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN215553 representing NM_001015007
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGTCTACCTTCAGCAGTCCCGCGGAGGCGGCCCTGCAACGGGAGGCGGGCTTCCAGGACAGTTCA
CCCCTCCTGAAGACCTGGACCGAGTGTACGAGCTGGAGCGAGTACGAGATTTATCTGCGATTTAGGATG
TCAGCGGGTGGCCTTGCAGTTCCCGGACCAATTACTAGGAGATGCTGGAGCGGTGGCTGCCCGGCTGGAG
GAAGTCACGGGATCTAAGATGTTCAATTTAGGGGACACAGCTTATGGCAGCTGCTGTGTGGATGTCTGG
GCGCTGAGCAGGCTGGAGCTCAAGCCCTGTACACTTTGGTCTGCTGCTTGGAGCCCCAGCCTCCCT
GCTGCCATCACCTTTGCTTGGTGGCGCTCCTGTTGCTTTAGAAGCTGTGCAAGGCCCTTTGAAGCC
CAGAACCAGATCCACAGCACTGGTAGTACTGCTGAGTGGAGCCAGCCTGTGCCACGCCCTCGAGCCTT
TGGCCACTCTCCTGCGTCAAAGTACCAAGATCTGCTCATCTCCAGCCAGCTCTGCCCTTGCCAGTGGG
GTCCCTGAGCTCACAGCCGAGTCACTGGAACGTTTTGGGAGACGCTTCCCCTGAACCCAGGGAGAAGT
CTGGAAGAATATGGCGCCTTCTATGTGGGGCTTCTCAAGCAAGCTCTGACCCCAACCTTGATCCGGATC
TGAGCAGATTGCTTGGGGTGGACACCAGGACGGCCCTTCTTCTCTGTGTCCAGACACAGGACAGAC
ACAAGACCAGGGTCCAAGGCTGGGAGACTAAGAGCACGAAGACTGTATCTTGTAGAGAGGGCCAGAGAT
GCCCGTGTGGTAGGGCTGCTGGTGGGCACATTAGGTGTGGCTCAACACCTGGAGGCGCTGGCACACTTGC
GGAAACTGACCGAAGCTGCTGGGAAACGTAGCTATGTGTTAGCCCTGGGGAAGCCACACCTGCCAAGCT
TGCCAACCTCCCCGAGATGGATGCTTTGTGCTGTAGCATGCTCTGGGAGCACTAACCTCCAGCCT
TCGGGTGGCTTCTCCGGCCTATATTGACACCATGTGAGTTGGAGGCCGCTGCAACCTGCCTGGCCCC
CTCCAGGCCTGGCTCCCCACCTACCCATTATGCAGAGCTGTTGCCTGGCTCTCCCTTCCATGTGCCACT
CCCACCCTGAGTCAGAGTTATGGGACACCCAGATGTGTCGCTCATTCTGGGGAGCTCCGACCGCCA
CCTCCTTGAAGTCGTCAGATGACACTAAGTGTCTGCCCTAACTCCAAGGCCCAAGCTGGAGCTGGCCG
AGAGCAGCCCTGCGGCTTATTCTTAGTTCCCGGAGCTGGCAGGGGCTGGAGCCCCGCTTGGGCCAGAC
ACCAGTGAAGAAGCTGTCCAAGGGAGACGAGGTATTGCCATTGCCTATGAAGATGAGGGAAGCAGCTGA

ACGGTACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001015007

Insert Size: 1470 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:

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_001015007.1](#), [NP_001015007.1](#)
RefSeq Size: 2192 bp
RefSeq ORF: 1470 bp
Locus ID: 298452
UniProt ID: [Q568Y2](#)
Cytogenetics: 5q36
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]