

Product datasheet for **RR215553**

Dph2 (NM_001015007) Rat Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>RR215553 representing NM_001015007
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGTCTACCTTCAGCAGTCCCGCGGAGGCGGCCCTGCAACGGGAGGCGGGCGTTCCAGGACAGTTCA
 CCCCTCCTGAAGACCTGGACCGAGTGTACGAGCTGGAGCGAGTACAGAGATTTATCTGCGATTTAGGATG
 TCAGCGGGTGGCCTTGCAGTTCCCGGACCAATTACTAGGAGATGCTGGAGCGGTGGCTGCCCGGCTGGAG
 GAAGTCACGGGATCTAAGATGTTTATTTAGGGGACACAGCTTATGGCAGCTGCTGTGTGGATGTCTGG
 GCGCTGAGCAGGCTGGAGCTCAAGCCCTGTACACTTTGGTCTGCTGCTTGGAGCCCCAGCCTCCCT
 GCTGCCATCACCTTTGCTTGGTGGCGCTCTGTTGCTTTAGAAGTCTGTGCAAGGCCCTTTGAAGCC
 CAGAACCAGATCCACAGCACTGGTAGTACTGCTGAGTGGAGCCAGCCTGTGCCACGCCCTCGAGCCTT
 TGGCCACTCTCCTGCGTCAAAGTACCAAGATCTGCTCATCTCCAGCCAGCTCTGCCCTTGCCAGTGGG
 GTCCTGAGCTCACAGCCGAGTCACTGGAACGTTTTGGGAGACGCTTCCCCTGAACCCAGGGAGAAGT
 CTGGAAGAATATGGCGCCTTCTATGTGGGGCTTCTCAAGCAAGCTCTGACCCCAACCTTGATCCGGATC
 TGAGCAGATTGCTTGGGGTGGACACCAGGACGCCCTTCTTCTCCTGTTGCCAGACACAGGACAGAC
 ACAAGACCAGGGTGCCAAGGCTGGGAGACTAAGAGCACGAAGACTGTATCTTGTAGAGAGGGCCAGAGAT
 GCCCGTGTGGTAGGGCTGCTGGTGGGCACATTAGGTGTGGCTCAACACCTGGAGGCGCTGGCACACTTGC
 GGAAACTGACCGAAGCTGCTGGGAAACGTAGCTATGTGTTAGCCCTGGGAAGCCACACCTGCCAAGCT
 TGCCAACCTCCCCGAGATGGATGCTTTGTGCTGTAGCATGCTCTGGGAGCACTAACCTCCAGCCT
 TCGGGTGGCTTCTCCGGCCTATATTGACACCATGTGAGTTGGAGCCGCTGCAACCTGCCTGGCCCC
 CTCCAGGCTGGCTCCCACCTACCCATTATGCAGAGCTGTTGCCTGGCTCTCCCTTCCATGGCCACT
 CCCACCCTGAGTCAGAGTTATGGGACACCCAGATGTGTCGCTCATTCTGGGAGCTCCGACCGCCA
 CCTCCTTGAAGTCGTCAGATGACACTAAGTGTCTGCCCTAACTCCAAGCCCCAGCTGGAGCTGGCCG
 AGAGCAGCCCTGCGGCTTATTCTTAGTTCGGGAGCTGGCAGGGGCTGGAGCCCCGCTTGGGCCAGAC
 ACCAGTGAAGAAGCTGTCCAAGGGAGACGAGGTATTGCCATTGCCTATGAAGATGAGGGAAGCAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR215553 representing NM_001015007
 Red=Cloning site Green=Tags(s)

MESTFSSPAEALQREAGVPGQF TPPEDLDRVYELERVTRFICDLGCQRVALQFPDQLLDGAGAVARLE
 EVTGSKMFI LGDTAYGSCVDVLGAEQAGAQUALVHFGPACLSPPASLLPITFVLGRRPVALELCAKAFEA
 QNPDPATLVVLLSEPACAHALEPLATLLRPKYQDLLISSPALPLPVGSLSSQPESLERFGRFP LNPGRS
 LEEYGAFFYVGASQASSDPNLDPLSRLLLGWTPGRPFSSCCPDTGQTQDQGAKAGRLRARRLYLVERARD
 ARVVGLLVGTLGVAQHLEALHLRKL TEAAGKRSYVVALGKPTPAKLANFPMDV FVLLACPLGALTLQP
 SGGFFRPILTPCELEAACNPWWPPPGLAPHLTHYAELLPGSPFHVPLPPPESLWDTDPVSLISGELRPP
 PPWKSSDDTKCSALTPRPQLELAESSPAASF LSSRSWQGLEPRLGQTPVKEAVQRRRIAIAYEDEGSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

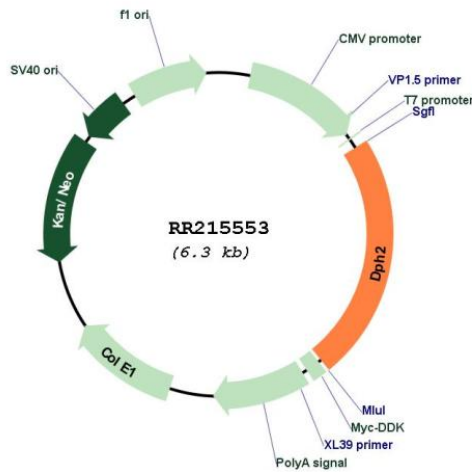
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001015007

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:	<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:	<u>NM_001015007.1, NP_001015007.1</u>
RefSeq Size:	2192 bp
RefSeq ORF:	1470 bp
Locus ID:	298452
UniProt ID:	<u>Q568Y2</u>
Cytogenetics:	5q36
MW:	52.3 kDa
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]