

Product datasheet for RR208366

Phospho2 (NM_001007642) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phospho2 (NM_001007642) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Phospho2
Synonyms:	MGC93920
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR208366 representing NM_001007642 Red=Cloning site Blue=ORF Green=Tags(s)

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TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCAGGAGATCTGCC  
GCCGGATCGCC
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ATGAAAGTTCTGTTGGTGTGGTGTGGTCTTTGACTTTGACAATAACAATCATAGACGACAACAGCGACACCTGGATTATAC  
AGTGTGCTCCAGACAAGAAGCTTCCATTGAGCTACAAGATTCTTATCAGAAGGGGCTTTGGACAGAATT  
TATGGGCGAGTCTTTAAGTATTTGAGAGATGAGGGGGTTAAAGAAGAGGAACTGAAAAGGGCAGTGACG  
TCACTACCCTTCACCTCAGGGATGATAGAACTTCTCAGCTTTCTGAGGATGAATAAGGACAGATTTGACT  
GCATCATCATTTTCAGACTCAAATTCATCTTCATAGATTGGGTTTTAGAAGCTGCTGCCTTTCATGATGT  
CTTTGATACCGTGTTCACCAATCCAGCGTCTTTTATAGCACTGGTCCGCTCACAGTGAGAAAATTGCCAT  
ACTCATGCTTGCCTAGGTGCCAAAGAACCTTGCAAAAATACAGTTTTGGGAGAGTTCATCGACAAAC  
AGTTACAAAAGGGAGTGGGTACACGCGGATTGTTTATACGGCGATGGCGGAAATGATGTCTGTCCAGT  
AACTTTTTAAAGAAAAATGATGTTGCCATGCCGAGGGAAAGGATATACTTTACATAGGACTCTTGACAAA  
ATGTCTCAGAATCTTGACCTATGGCATTTCTATTGTAGTTGGTCTTCAGGGATGAAATAATTTCTC  
ATTTACAATTTTAATACAGATG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA
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Protein Sequence: >RR208366 representing NM_001007642
Red=Cloning site Green=Tags(s)

MKVLLVDFDNTIIDDNSDTWIIQCAPDKKLPIDELQDSYQKGLWTEFMGRVFKYL RDEGVKEELKRAVT
 SLPFTSGMIELLSFLRMNKDRFDCIIISDSNSIFIDWVLEAAAFHDVFDVFTNPASFDSTGRLTVRNCH
 THACTRCPKNLCKNTVLGEFIDKQLQKGVRYTRIVYIGDGGNDVCPVTFLLKKNVAMPREGYTLHRTLDK
 MSQNLEPMASSIVVWSSGMEIISHLQFLIQM

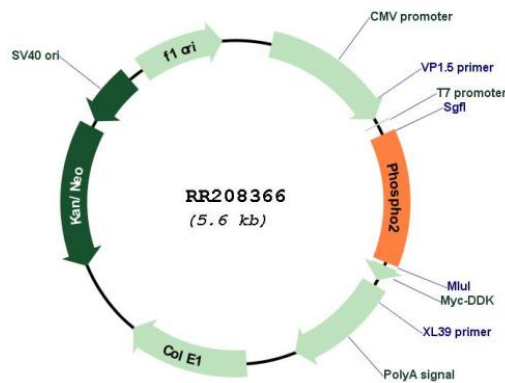
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001007642

ORF Size: 723 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:	NM_001007642.1 , NP_001007643.1
RefSeq Size:	2131 bp
RefSeq ORF:	726 bp
Locus ID:	295663
UniProt ID:	Q66HC4
Cytogenetics:	3q21
MW:	27.6 kDa
Gene Summary:	Phosphatase that has high activity toward pyridoxal 5'-phosphate (PLP). Also active at much lower level toward pyrophosphate, phosphoethanolamine (PEA), phosphocholine (PCho), phospho-l-tyrosine, fructose-6-phosphate, p-nitrophenyl phosphate, and h-glycerophosphate (By similarity).[UniProtKB/Swiss-Prot Function]