

## Product datasheet for RN208366

### Phospho2 (NM\_001007642) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Phospho2 (NM_001007642) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Phospho2
Synonyms:	MGC93920
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN208366 representing NM_001007642 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAAAGTTCTGTTGGTGTGGTCTTTGACTTTGACAATACAATCATAGACGACAACAGCGACACCTGGATTATAC  
AGTGTGCTCCAGACAAGAAGCTTCCATTGAGCTACAAGATTCTTATCAGAAGGGGCTTTGGACAGAATT  
TATGGGCAGAGTCTTTAAGTATTTGAGAGATGAGGGGTTAAAGAAGAGGAAGTAAAAGGGCAGTGACG  
TCACTACCTTCACCTCAGGGATGATAGAACTTCTCAGCTTTCTGAGGATGAATAAGGACAGATTTGACT  
GCATCATCATTTTCAGACTCAAATTCATCTTCATAGATTGGGTTTTAGAAGCTGCTGCCTTTTCATGATGT  
CTTTGATACCGTGTTTACCAATCCAGCGTCTTTTGATAGCACTGGTGCCTCACAGTGAGAAATTGCCAT  
ACTCATGCTTGCACTAGGTGCCAAAGAACCTTTGCAAAAATACAGTTTTGGGAGAGTTCATCGACAAAC  
AGTTACAAAAGGGAGTGAGGTACACGCGGATTGTTTATATCGCGCATGGCGGAAATGATGTCTGTCCAGT  
AACTTTTTTAAAGAAAAATGATGTTGCCATGCCAGGGGAAGGATATACTTTACATAGGACTCTTGACAAA  
ATGTCTCAGAATCTTGACCTATGGCATCTTCTATTGTAGTTGGTCTTCAGGGATGAAATAATTTCTC  
ATTTACAATTTTAATACAGATG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001007642
Insert Size:	726 bp



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<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001007642.1</a> , <a href="#">NP_001007643.1</a>
<b>RefSeq Size:</b>	2131 bp
<b>RefSeq ORF:</b>	726 bp
<b>Locus ID:</b>	295663
<b>UniProt ID:</b>	<a href="#">Q66HC4</a>
<b>Cytogenetics:</b>	3q21
<b>Gene Summary:</b>	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]