

Product datasheet for **SC301302**

PHOSPHO2 (NM_001008489) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PHOSPHO2 (NM_001008489) Human Untagged Clone
Tag:	Tag Free
Symbol:	PHOSPHO2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC301302 representing NM_001008489. Blue=Insert sequence Red=Cloning site Green=Tag(s)

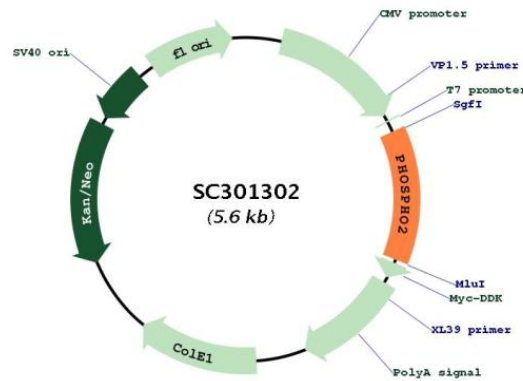
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GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
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CAATGTGCTCCCAACAAAAGCTTCCTATTGAACTACGTATTCTTATCGAAAAGGATTTTGGACAGAA
TTTATGGGCAGAGTCTTTAAGTATTTGGGAGATAAGGGTGTAAAGAGAATGAAATGAAAAGAGCAGTG
ACATCATTGCCTTTCCTCCAGGGATGGTGGAACTCTTCACTTTATAAGAAAGAATAAGGATAAATTT
GACTGCATTATTATTTTCAGATTCAAATTCGGTCTTCATAGATTGGGTTTTAGAAGCTGCCAGTTTTCAT
GACATATTTGATAAAGTGTTCACAAATCCAGCAGCTTTTAAATAGCAATGGTCATCTCACTGTTGAAAAT
TATCATACTCATTCTTGCAATAGATGCCAAAGAATCTTTGCAAAAAGGTAGTTTTGATAGAATTTGTA
GATAAACAGTTACAACAGGGAGTGAATTATACACAAATGTTTATATTGGTGATGGTGGAAATGATGTC
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CTTCCAGAAATGTCTCAAAATCTTGAGCCTATGGAATATTCTGTTGTAGTTTGGTCTCAGGTGTTGAT
ATAATTTCTCATTACAATTTCTAATAAAGGATTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-Mlul



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Plasmid Map:



ACCN: NM_001008489

Insert Size: 726 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001008489.3](#)

RefSeq Size: 1149 bp

RefSeq ORF: 726 bp

Locus ID: 493911

UniProt ID: [Q8TCD6](#)

Cytogenetics: 2q31.1

MW: 27.8 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. [UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. All variants (1-5) encode the same protein.