OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG233523

PHOSPHO2 (NM_001199287) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PHOSPHO2 (NM_001199287) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PHOSPHO2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG233523 representing NM_001199287
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAAATTTTGCTAGTTTTTGACTTTGACAATACAATCATAGATGACAATAGTGACACTTGGATTGTAC
AATGTGCTCCCAACAAAAAGCTTCCTATTGAACTACGTGATTCTTATCGAAAAGGATTTTGGACAGAATT
TATGGGCAGAGTCTTTAAGTATTTGGGAGATAAGGGTGTAAGAGAACATGAAATGAAAAGAGCAGTGACA
TCATTGCCTTTCACTCCAGGGATGGTGGAACTCTTCAACTTTATAAGAAAGAATAAGGATAAATTTGACT
GCATTATTATTTCAGATTCAAATTCGGTCTTCATAGATTGGGTTTTAGAAGCTGCCAGTTTTCATGACAT
ATTTGATAAAGTGTTTACAAATCCAGCAGCTTTTAATAGCAATGGTCATCTCACTGTTGAAAATTATCAT
ACTCATTCTTGCAATAGATGCCCAAAGAATCTTTGCAAAAAGGTAGTTTTGATAGAATTTGTAGATAAAC
AGTTACAACAGGGAGTGAATTATACACAAATTGTTTATATTGGTGATGGTGGAAATGATGTCTGTCCAGT
CACCTTTTTAAAGAATGATGATGTTGCCATGCCACGGAAAGGATATACCTTACAGAAAACTCTTTCCAGA
ATGTCTCAAAATCTTGAGCCTATGGAATATTCTGTTGTAGTTTGGTCCTCAGGTGTTGATATAATTTCTC
ATTTACAATTTCTAATAAAGGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG233523 representing NM_001199287
Red=Cloning site Green=Tags(s)

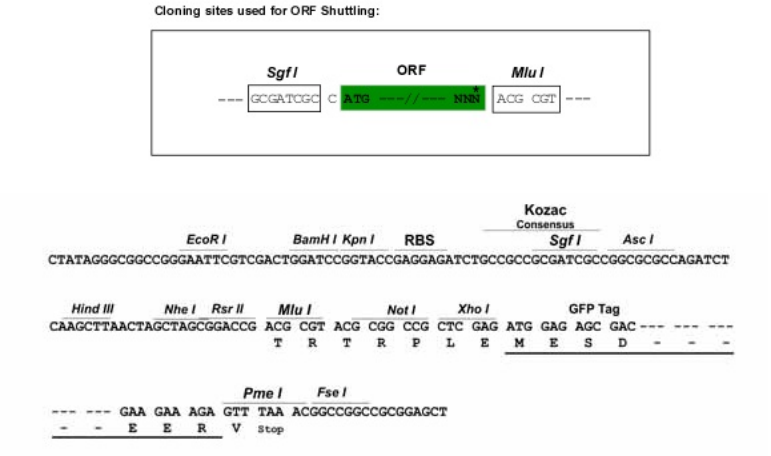
MKILLVFDFDNTIIDDNSDTWIVQCAPNKKLPIELRDSYRKGFWTEFMGRVFKYLGDKGVREHEMKRAVT
SLPFTPGMVELFNFIRKNKDKFDCIIISDSNSVFIDWVLEAASFHDIFDKVFTNPAAFNSNGHLTVENYH
THSCNRCPKNLCKKVVLIEFVDKQLQQGVNYTQIVYIGDGGNDVCPVTFLKNDDVAMPRKGYTLQKTLSR
MSQNLEPMEYSVVVWSSGVDIISHLQFLIKD

TRTRPLE - GFP Tag - V

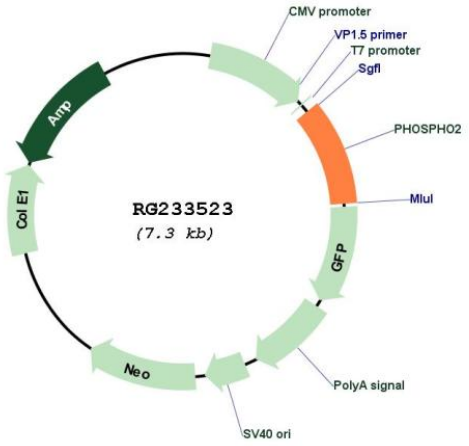
View online »

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001199287

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:	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_001199287.1, NP_001186216.1
RefSeq Size:	1267 bp
RefSeq ORF:	726 bp
Locus ID:	493911
UniProt ID:	Q8TCD6
Cytogenetics:	2q31.1
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]