

## Product datasheet for **RG214434**

### PHOSPHO1 (NM\_178500) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PHOSPHO1 (NM_178500) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PHOSPHO1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214434 representing NM_178500 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTGGCTGTTTTCCAGTTTCTGGCCTCCGCTGCCTATCTAGGGACGGCAGGATGGCCGCGCAGGGCG  
CGCCGCGCTTCTCCTGACCTTCGACTTCGACGAGACTATCGTGGACGAAAACAGCGACGATTTCGATCGT  
GCGCGCCGCGCCGGGCCAGCGGCTCCCGGAGAGCCTGCGAGCCACCTACCGCGAGGGCTTCTACAACGAG  
TACATGCAGCGCGTCTTCAAGTACCTGGGCGAGCAGGGCGTGCGGCCGCGGGACCTGAGCGCCATCTACG  
AAGCCATCCCTTTGTGCGCCAGGCATGAGCGACCTGCTGCAGTTTGTGGCAAACAGGGCGCCTGCTTCGA  
GGTGATTCTCATCTCCGATGCCAACACCTTTGGCGTGGAGAGCTCGCTGCGCGCCGCGGCCACACAGC  
CTGTTCCGCCGATCCTCAGCAACCCGTCGGGGCCGGATGCGCGGGGACTGCTGGCTCTGCGGCCGTTCC  
ACACACACAGCTGCGCGCGCTGCCCGCCAACATGTGCAAGCACAAGGTGCTCAGCGACTACCTGCGCGA  
GCGGGCCACGACGGCGTGCCTTCGAGCGCCTTCTACGTGGGCGACGGCGCCAACGACTTCTGCCCC  
ATGGGGCTGCTGGCGGGCGGCGAGTGGCCTTCCCGCGCCGCGGTACCCATGCACCGCCTCATTACAGG  
AGGCCAGAAAGCCGAGCCAGCTCGTCCGCGCCAGCGTGGTCCCTGGGAAACGGCTGCAGATGTGCC  
CCTCCACCTGCAACAGGTGCTGAAGTCGTGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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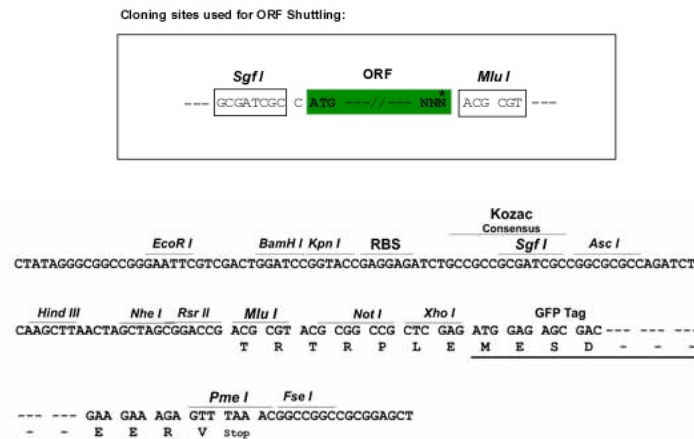
**Protein Sequence:** >RG214434 representing NM\_178500  
Red=Cloning site Green=Tags(s)

MSGCFVPSGLRCLSRDGRMAAQGAPRFLLTFFDFDETIVDENSDDSIIVRAAPGQRLPESLRATYREGFYNE  
 YMQRVFKYLGEQGVPRDL SAIYEAIPLSPGMSDLLQFVAKQGACFEVILISDANTFGVSSLRAAGHHS  
 LFRRILSNPSGPDARGLLALRPFHTHSCARCPANMCKHKVLS DYLRERAHDGVHFERLFYVGDGANDFCP  
 MGLLAGGDVAFPRRGYPMHRLIQEAQKAEPSSFRASVVPWETAADVRLHLQQVLKSC

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_178500

**ORF Size:** 801 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\\_178500.4](#)

**RefSeq Size:** 2070 bp

**RefSeq ORF:** 804 bp

**Locus ID:** 162466

**UniProt ID:** [Q8TCT1](#)

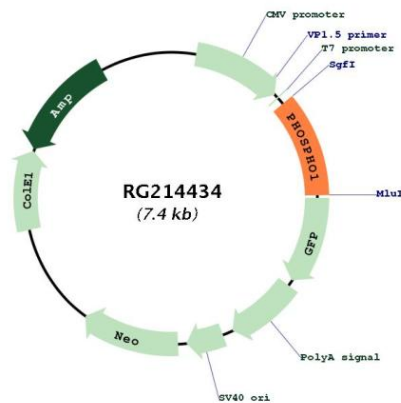
**Cytogenetics:** 17q21.32

**Protein Families:** Druggable Genome

**Protein Pathways:** Glycerophospholipid metabolism

**Gene Summary:** Phosphatase that has a high activity toward phosphoethanolamine (PEA) and phosphocholine (PCho). Involved in the generation of inorganic phosphate for bone mineralization. [UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for RG214434