

Product datasheet for **RG226021**

Phostensin (PPP1R18) (NM_001134870) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phostensin (PPP1R18) (NM_001134870) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Phostensin
Synonyms:	HKMT1098; KIAA1949
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG226021 representing NM_001134870
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCACCATCCCAGACTGGAAGCTACAGCTGCTAGCCCGCGCCGGCAGGAGGAGCGTCCGTTTCGAG
 GCCGAGAGAAAGCAGAACGGGAGCGCCTGTCCAGATGCCAGCCTGGAACGAGGGCTCCTGGAGCGCCG
 CCGGGCCAAGCTTGGGCTGTCCCTGGGAGCCTAGCCCTGTGCTAGGGACTGTAGAGGCTGGACCTCCA
 GACCCGGATGAGTCTGCGGTCTTCTGGAGGCCATCGGGCAGTGCACCAGAACCATTATCCGGCAGG
 AGCGGCAGCAGCAGCAGCAACAACCGAGTGAAGAGCTGTAGCAGAGAGAAAGCCTGGGCTCT
 GGAGGCCCGGGAGCGGAGACCCAGCCCTGGGAGATGCGGGATCAGAGCCCCAAGGAAGAGAGTCAAGA
 GAAGAGAGACTAAGTCCGAGGGAGACCAGAGAGAGGAGGCTGGGATAGGGGAGCCCAAGATTGAGCC
 TGAGGCCCTCTGGAGGCTCGGACTGGAGGCAAGCCAGGAGAGGTGGGAGACAGGAGCTCCGACTGTC
 AGAGGCATGGAATGGAGGCTGAGTCTTGAGAACTCCAGAGCGGAGTCTGAGACTAGCAGAGTCTCGA
 GAGCAAGCCCCAGGAGAAAAGAGGTGGAAGTAGACTGAGCCAGGGGAATCTGCCTACCAGAAGTTGG
 GCCTGACAGAGGCCCATAAATGGAGACCTGACTCCAGAGAGTCTCAGGAACAGAGTTTGGTACAACCTGGA
 GGCAACAGAGTGGAGGCTGAGGTGAGGAGAAGAAAGACAAGACTACTCGGAAGATGTGGGAGAAAAGAA
 GAGTGGCCAGTTCCAGGGGTAGCTCCAAAAGAGACTGCAGAGCTGTCCGAGACCTGACAAGGGAGGCC
 AAGGCAACAGTTCCGAGGAGTGGAGGCAGCAGAGCAGAGGCCTGTGGAAGATGGCGAGAGGGGCATGAA
 GCCAACAGAAGGGTGAAATGGACCTGAACCTCGGGAAGGCTCGAGAATGGACACCCAGGGACATAGAG
 GCTCAAACCTCAGAAACCAGAACCTCCAGAGTCAAGAGAGAAGCTTCTGGAATCTCCCGGTGTGGAGGCTG
 GAGAAGGGGAGGCTGAGAAGGAGGAGCGGGGCTCAGGCAGGCCTCTGAGAGCCCTGCAGAACTGCTG
 CTCTGTGCCCTCCCCCTCCACAGAGGACGCTGGGACTGGAGGCTGAGACAGCAGGAAGAGGAAGCA
 GTGGAGTCCAGCCCCACCACAGCCCTCTGTCTCCCCACCCCCAGCCCCAACTGCCCCCCAACCTC
 CTGGGGATCCCCTCATGAGCCGCTGTTCTATGGGGTGAAGGCAGGGCCAGGGTGGGGGCCCCCGCCG
 CAGTGGACACACCTTACCGTCAACCCCGCGGTCTGTGCCCTGCGACCCAGCCACCCCAACCTCT
 CCAGCCACAGTTGATGCTGCAGTCCCGGGGCTGGGAAGAAGCGGTACCAACTGCCGAGGAGATCTTGG
 TTCTGGGGGCTACCTCCGTCTCAGCCGAGCTGCCTTGCCAAGGGTCCCCGAAAGACACCACAAACA
 GCTTAAGATCTCCTTCAAGCAGACAGCCCTGGAGACCAGTACCAATACCCCTCCGAGAGTTCGGTACTG
 GAGGAGCTGGGCCGAGCCTGAGGTCCCAAGTCCCCCAACCTCCAGCAGCCCAACCCGACGACGAAG
 AGGATGAGGAAGAGCTGCTGCTGCTGCAGCCAGAGCTCCAGGGCGGGCTGCGACCAAGGCCTGATTGT
 GGATGAGTCTGCCGGCGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

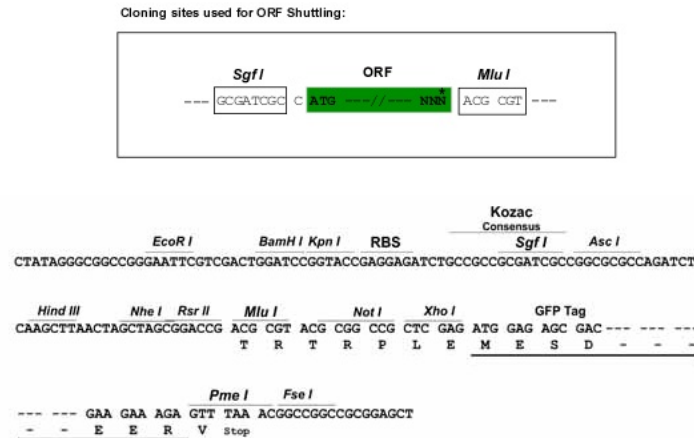
>RG226021 representing NM_001134870
 Red=Cloning site Green=Tags(s)

MATIPDWKLQLLARRRQEEASVRGREKAERERLSQMPAWKRGLLERRRAKLGLSPGEPSPVLGTVEAGPP
 DPDESAVLLEAIGPVHQNRIRQERQQQQQQRSEELLAERKPGPLEARERRPSPGEMRDQSPKGRESR
 EERLSPRETRERRLGIGGAQELSLRPLEARDWRQSPGEVGDSSRLSEAWKWRLSPGETPERSLRLAESR
 EQSPRRKEVESRLSPGESAYQKLGLTEAHKWRPDSRESQESLVQLEATEWRLRSGEERQDYSEECGRKE
 EWPVPGVAPKETAESETLTREAQGNSSAGVEAAEQRPVEDGERGMKPTGKWTLSNGKAREWTPRDIE
 AQTQKPEPPESAELLESPPVEAGEGEAEKEEAGAQRPLRALQNCSSVPSPLPPEDAGTGLRQEEEEA
 VELQPPPPAPLSPPPAPTAPQPPGDPLMSRLFYGVKAGPGVGAPRRSGHTFTVNPRRSVPPATPATPTS
 PATVDAAVPGAGKKRYPTAEIILVLGGYLRLSRSLAKGSPERHHKQLKISFSETALETQYQPSSESVL
 EELGPEPEVPSAPNPAAQPDDEEDEEELLLLQPELQGLRRTKALIVDESCRR

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001134870

ORF Size: 1839 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_001134870.2](#)

RefSeq Size: 2969 bp

RefSeq ORF: 1842 bp

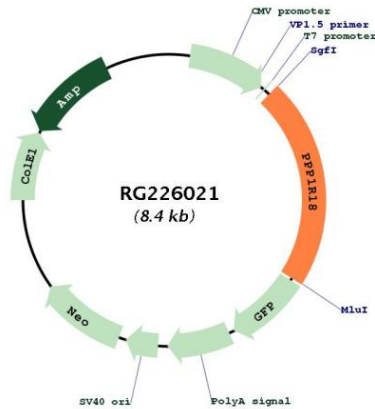
Locus ID: 170954

UniProt ID: [Q6NYC8](#)

Cytogenetics: 6p21.33

Gene Summary: Protein phosphatase-1 (PP1; see MIM 176875) interacts with regulatory subunits that target the enzyme to different cellular locations and change its activity toward specific substrates. Phostensin is a regulatory subunit that targets PP1 to F-actin (see MIM 102610) cytoskeleton (Kao et al., 2007 [PubMed 17374523]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RG226021