

Product datasheet for **RG215663**

Phostensin (PPPIR18) (NM_133471) Human Tagged ORF Clone

Product data:

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



ORF Nucleotide Sequence: >RG215663 representing NM_133471
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCACCATCCCAGACTGGAAGCTACAGCTGCTAGCCCGGCCCGGCAGGAGGAGGCGTCCGTTTCGAG
 GCCGAGAGAAAGCAGAACGGGAGCGCTGTCCCAGATGCCAGCCTGGAACAGAGGGCTCCTGGAGCGCCG
 CCGGGCCAAGCTTGGGCTGTCCCTGGGAGCCTAGCCTGTGCTAGGGACTGTAGAGGCTGGACCTCCA
 GACCCGGATGAGTCTGCGGTCTTCTGGAGGCCATCGGGCAGTGCACCAGAACCATTATCCGGCAGG
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 GGAGGCCCGGGAGCGGAGACCCAGCCTGGGAGATGCGGGATCAGAGCCCCAAGGGAAGAGAGTCAAGA
 GAAGAGAGACTAAGTCCGAGGGAGACCAGAGAGAGGAGGCTGGGATAGGGGAGCCCAAGATTGAGCC
 TGAGGCTCTGGAGGCTCGGGACTGGAGGCAAAGCCAGGAGAGTGGGAGACAGGAGCTCCCGACTGTC
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 GAGCAAGCCCCAGGAGAAAAGAGGTGGAAGTAGACTGAGCCAGGGGAATCTGCCTACCAGAAGTTGG
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 AAGGCAACAGTTCCGAGGAGTGGAGGCAGCAGAGCAGAGGCTGTGGAAGATGGCAGAGGGGATGAA
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 TTCTGGGGGCTACCTCCGTCTCAGCCGAGCTGCCTTGCCAAGGGGTCCCCGAAAGACACCACAAACA
 GCTTAAGATCTCCTTCAAGCAGACAGCCCTGGAGACCAGTACCAATACCCCTCCGAGAGTTCGGTACTG
 GAGGAGCTGGGCCCGAGCCTGAGTCCCCAGTCCCCCAACCTCCAGCAGCCCAACCCGACGACGAAG
 AGGATGAGGAAGAGCTGCTGCTGCTGCAGCCAGAGCTCCAGGGCGGCTGCGCACCAAGGCCCTGATTGT
 GGATGAGTCTGCCGGCGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

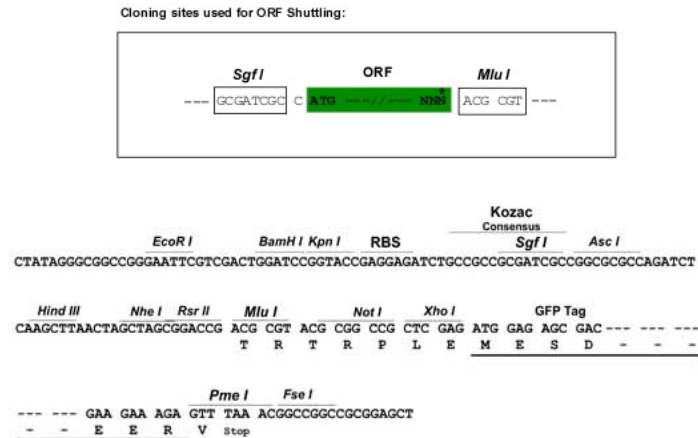
Protein Sequence: >RG215663 representing NM_133471
 Red=Cloning site Green=Tags(s)

MATIPDWKLLARRRQEEASVRGREKAERERLSQMPAWKRGLLERRRAKLGLSPGEPSPVLGTVEAGPP
 DPDESAVLLEAIGPVHQNRIRQERQQQQQQRSEELLAERKPGPLEARERRRSPGEMRDQSPKGRESR
 EERLSPRETRERRLGIGGAQELSLRPLEARDWRQSPGEVGDSSRLSEAWKWLSPGETPERSLRLAESR
 EQSPRRKEVESRLSPGESAYQKLGLTEAHKWRPDSRESQEQSLVQLEATEWRLRSGEERQDYSEECGRKE
 EWPVPGVAPKETAESETLTREAQGNSSAGVEAAEQRPVEDGERGMKPTGKWTLNSGKAREWTPRDIE
 AQTQKPEPPESAELKLLSPGVEAGEAEKEEAGAQRPLRALQNCSSVPSLPPEDAGTGLRQEEEEA
 VELQPPPPAPLSPPPAPTAPQPPGDLMSRLFYGVKAGPGVGAPRRSGHTFTVNPRRSVPPATPATPTS
 PATVDAAVPGAGKKRYPTAEILVLGGYLRLRSCLAKGSPERHHQLKISFSETALETTYQYPSSESVL
 EELGPEPEVPSAPNPPAAQPDDEDEEELLLLQPELQGLRTKALIVDESCRR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_133471

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.

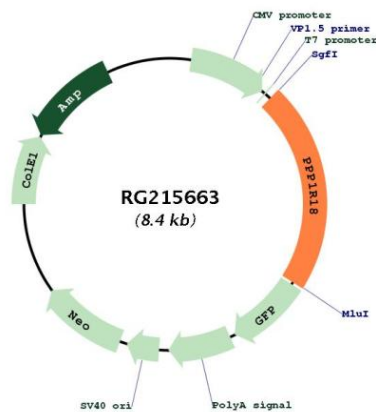
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_133471.4](#)

RefSeq Size: 2924 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 RG215663