

Product datasheet for **RG215175**

PPP2R1B (NM_002716) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R1B (NM_002716) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPP2R1B
Synonyms:	PP2A-Abeta; PR65B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG215175 representing NM_002716
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGGCGCATCAGAGCTCGGGACCGCCAGGAGCAGCGGGTGGAGATGGAGATGATTTCGCTATACC
 CGATCGCGGTTTTAATCGACGAGCTCCGCAATGAAGACGTGCAGCTCCGACTCAACAGTATTAAGAAGTT
 ATCAACAATTGCCTAGCACTTGGAGTAGAAAAGGACCCGAAGTGAATTGTTGCCATTTCTTACAGATACA
 ATTTATGATGAAGATGAGGTACTATTAGCTCTTGTCTGAGCAGCTGGGAAATTTCACTGGCCTAGTGGGAG
 GTCCTGACTTTGCCACTGTCTGCTGCCTCCTTTGGAAAATCTGGCAACTGTGGAAGAGACTGTTGTTCCG
 TGACAAGGCTGTGGAGTCCCTGAGACAGATCTCCAGGAGCATACTCCTGTTGCTCTGGAAGCTTATTTT
 GTACCTCTGGTGAACGCTTAGCAAGTGGGATTGGTTCACCTCTCGCACATCTGCATGTGGTTTGTTC
 GCGTTTGTCTATCCAGGGCATCAAATGCTGTTAAAGCAGAAATCAGACAGCAATTCGGTCTTGTGCTC
 AGATGACACACCAATGGTACGACGTGCTGCTGCTCCAAATTTGGTGAATTTGCAAAAGTTTGGAAATTA
 GACAGTGTGAAAAGTGAATTTGCCACTGTCTACTAGCTTAGCTTCAGATGAACAGGATTACAGTGCGCC
 TCCTTGCTGTGGAAGCTTGTGTCAGTATTGCCAGTATTGTCTCAGGATGACCTTGAGACTTTGGTGTAT
 GCCTACACTTCGACAAGCAGCAGAAGATAAATCTTGGCGGTTTCGCTATATGGTGGCTGACAGATTTTCA
 GAGCTCCAGAAAGCCATGGGTCTAAAAACACCCTAAATGACCTCATCCCCGCCTTTCAGAACCTACTTA
 AAGACTGTGAAGTGAAGTCCGGGCAGCTGCTGCCACAAAGTAAAAGAAGTGGTGAGAAGTGGCCAT
 TGAAGTAGAGAGACCATAATTAATGAATCAAATCTGCCTTATAAAAGGAATTAGTATCCGATACCAAT
 CAACATGTCAAATCGGCTCTAGCTTCTGTAATTATGGGATTGTCTACTATTTGGGCAAAGAAAATACCA
 TTGAACATCTTCTACCTTTTTCTTAGCTCAGTTAAAGGATGAGTGTCTGACGTTGTTGAAATATCAT
 CTCCAATTTGGATTGTGTAATGAAGTGAATGGAATCCGTCAGCTCTCTCAGTCTCTCCTTCTGCCATA
 GTGGAGCTGGCAGAAGATGCCAAATGGAGGTCGCCCTGGCCATCATTGAGTATATGCCGCTGCTGGCAG
 GCCAGCTGGGTGTGGAATCTTTGATGAAAAGCTGAATCTTTATGTATGGCTTGCTCGTGGACCATGT
 ATACGCCATCCGAGAAGCTGCCACCAACACCTCATGAACTAGTTCAGAAGTTTGGTACAGAGTGGGCC
 CAAAATACTATTGTTCCCAAAGTGTAGTAATGGCAAATGATCCTAATTACTTGCATAGAATGACCACTT
 TATTCTGCATTAATGCACTGTCTGAGGCCTGTGGTCAGGAAATACTACTAAGCAAATGTGCCCATCGT
 ATTAATAATGGCAGGAGACCAAGTAGCAAATGTTGCTTCAATGTGCCAAATCTCTACAAAAGATTGGA
 CCAATTCTAGATACCAATGCTTTACAGGAGAAGTGAAGCCAGTACTACAGAAGTTAGGTCAAGATGAAG
 ACATGGATGTCAAATACTTTGCACAGGAAGCTATAAGTGTCTTGCAATTGGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG215175 representing NM_002716
 Red=Cloning site Green=Tags(s)

MAGASELGTGPGAAGGDGDSL YPIAVLIDELRNEDVQLRLNSIKKLSIALALGVERTRSELLPFLTDT
 IYDEDEVLLALAEQLGNFTGLVGGPDFAHCLLPLENLATVEETVVRDKAVESLRQISQEHTPVALEAYF
 VPLVKRLASGDWFTSRTSACGLFSVCYPRASNAYKAEIRQQFRSLCSDDTPMVRRAAASKLGEFAKYLEL
 DSVKSEIVPLFTSLASDEQDSVRLLAVEACVSIQQLSQDDLETLVMPTLRQAAEDKSWRVRYMVADRF
 ELQKAMGPKITLNDLIPAFQNLKDCAEVRAAAAHKVKELGENLPIDRETIIMNQILPYIKELVSDTN
 QHVKSALASVIMGLSTILGKENTIEHLLPLFLAQLKDECPDVRNLIIISNLDVCVNEVIGIRLQSLLPAI
 VELAEDAKWRVRLAIIIEYMPLLAGQLGVEFFDEKLNLSLMAWLVDHVYAIIEAATNNLMKLVQKFGTEWA
 QNTIVPKVLVMANDPNYLHRMTTLFCINALSEACGQEITTKQMLPIVLKMGDQVANVRFNVAKSLQKIG
 PILDTNALQGEVQKPVQLKLGQDEMDVKYFAQEAISVLALA

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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:	<ol style="list-style-type: none">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_002716.5
RefSeq Size:	5605 bp
RefSeq ORF:	1806 bp
Locus ID:	5519
UniProt ID:	P30154
Cytogenetics:	11q23.1
Domains:	HEAT
Protein Families:	Druggable Genome, Phosphatase, Transcription Factors
Protein Pathways:	Long-term depression, Oocyte meiosis, TGF-beta signaling pathway, Tight junction, Wnt signaling pathway
Gene Summary:	This gene encodes a constant regulatory subunit of protein phosphatase 2. Protein phosphatase 2 is one of the four major Ser/Thr phosphatases, and it is implicated in the negative control of cell growth and division. It consists of a common heteromeric core enzyme, which is composed of a catalytic subunit and a constant regulatory subunit, that associates with a variety of regulatory subunits. The constant regulatory subunit A serves as a scaffolding molecule to coordinate the assembly of the catalytic subunit and a variable regulatory B subunit. This gene encodes a beta isoform of the constant regulatory subunit A. Mutations in this gene have been associated with some lung and colon cancers. Alternatively spliced transcript variants have been described. [provided by RefSeq, Apr 2010]