

Product datasheet for **RC215175**

PPP2R1B (NM_002716) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R1B (NM_002716) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPP2R1B
Synonyms:	PP2A-Abeta; PR65B
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC215175 representing NM_002716
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGGGCGCATCAGAGCTCGGGACCGCCAGGAGCAGCGGGTGGAGATGGAGATGATTTCGCTATACC
 CGATCGCGGTTTTAATCGACGAGCTCCGCAATGAAGACGTGCAGCTCCGACTCAACAGTATTAAGAAGTT
 ATCAACAATTGCCCTAGCACTTGGAGTAGAAAAGGACCCGAAGTGAATTGTTGCCATTTCTTACAGATACA
 ATTTATGATGAAGATGAGGTACTATTAGCTCTTGTCTGAGCAGCTGGGAAATTTCACTGGCCTAGTGGGAG
 GTCCTGACTTTGCCACTGTCTGCTGCCTCTTTGGAAAATCTGGCAACTGTGGAAGAGACTGTTGTTTCG
 TGACAAGGCTGTGGAGTCCCTGAGACAGATCTCCAGGAGCATACTCTGTTGCTCTGGAAGCTTATTTT
 GTACCTCTGGTGAACGCTTAGCAAGTGGGATTGGTTACCTCTCGCACATCTGCATGTGGTTTGTTC
 GCGTTTGTCTATCCAGGGCATCAAATGCTGTTAAAGCAGAAATCAGACAGCAATTCGGTCTTGTGCTC
 AGATGACACACCAATGGTACGACGTGCTGCTGCTCCAAATTTGGTGAATTTGCAAAAAGTTTGGAAATTA
 GACAGTGTGAAAAGTGAATTTGCCACTGTCTACTAGCTTAGCTTCAGATGAACAGGATTCACTGCGCC
 TCCTTGCTGTGGAAGCTTGTGTCAGTATTGCCAGTATTGTCTCAGGATGACCTTGAGACTTTGGTGTAT
 GCCTACACTTCGACAAGCAGCAGAAGATAAATCTTGGCGGTTCCGCTATATGGTGGCTGACAGATTTTCA
 GAGCTCCAGAAAGCCATGGGTCTAAAAACACCCTAAATGACCTCATCCCCGCTTTTCAAACTACTTA
 AAGACTGTGAAGTGAAGTCCGGGCAGCTGCTGCCACAAAGTAAAAGAAGTGGTGAGAAGTGGCCAT
 TGAAGTAGAGAGACCATAATTAATGAATCAAATCTGCCTTATAAAAGGAATTAGTATCCGATACCAAT
 CAACATGTCAAATCGGCTCTAGCTTCTGTAATTATGGGATTGTCTACTATTTTGGCAAAGAAAATACCA
 TTGAACATCTTCTACCTCTTTTCTAGCTCAGTTAAAGGATGAGTGTCTGACGTTGTTGAAATATCA
 CTCCAATTTGGATTGTGTAATGAAGTATTGGAATCCGTCAGCTCTCTCAGTCTCTCCTTCTGCCATA
 GTGGAGCTGGCAGAAGATGCCAAATGGAGGTCGCCCTGGCCATCATTGAGTATATGCCGCTGCTGGCAG
 GCCAGCTGGGTGTGGAATCTTTGATGAAAAGCTGAATCTTTATGTATGGCTTGGCTCGTGGACCATGT
 ATACGCCATCCGAGAAGCTGCCACCAACACCTCATGAACTAGTTCAGAAGTTTGGTACAGAGTGGGCC
 CAAAATACTATTGTTCCCAAAGTGTAGTAATGGCAAATGATCCTAATTACTTGCATAGAATGACCACTT
 TATTCTGCATTAATGCACTGTCTGAGGCTGTGGTCAGGAAATACTACTAAGCAAATGTGCCCATCGT
 ATTAATAATGGCAGGAGACCAAGTAGCAAATGTTGCTTCAATGTGCCAAATCTCTACAAAAGATTGGA
 CCAATTCTAGATACCAATGCTTTACAGGAGAAGTGAAGCCAGTACTACAGAAGTTAGGTCAAGATGAAG
 ACATGGATGTCAAATACTTTGCACAGGAAGCTATAAGTGTCTTGCAATTGGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC215175 representing NM_002716
 Red=Cloning site Green=Tags(s)

MAGASELGTGPGAAGGDGDDSLYPIAVLIDELRNEDVQLRLNSIKKLSIALALGVERTRESELLPFLTDT
 IYDEDEVLLALAEQLGNFTGLVGGPDFAHCLLPLENLATVEETVVRDKAVESLRQISQEHTPVALEAYF
 VPLVKRLASGDWFTSRTSACGLFSVCYPRASNVAKAEIRQQFRSLCSDDTPMVRRAAASKLGEFAKVLEL
 DSVKSEIVPLFTSLASDEQDSVRLLAVEACVSIQQLSQDDLETLVMPTLRQAAEDKSWRVRYMVADRF
 ELQKAMGPKITLNDLIPAFQNLKDCAEVRAAAAHKVKELGENLPEDRETIIMNQILPYIKELVSDTN
 QHVKSALASVIMGLSTILGKENTIEHLLPLFLAQLKDECPDVRNLINLDCVNEVIGIRLSQSLLPAI
 VELAEDAKWRVRLAIEYMPLLAGQLGVEFFDEKLNLSLMAWLVHVVYAIREAATNNLMKLVQKFGTEWA
 QNTIVPKVLMANDPNYLHRMTTLFCINALSEACGQEITTKQMLPIVLKMGDQVANVRFNVAKSLQKIG
 PILDTNALQGEVKPVLQKLGQDEDMDVKYFAQEASVLAALA

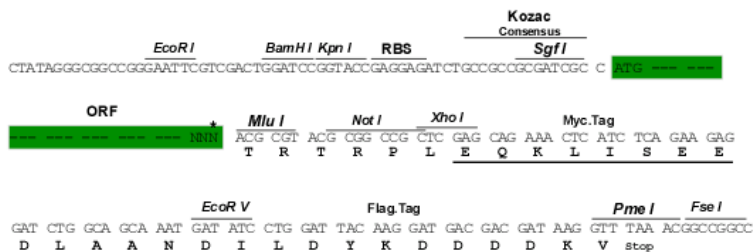
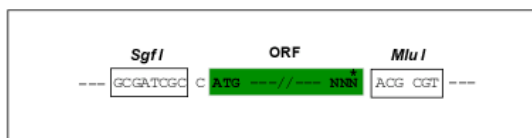
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

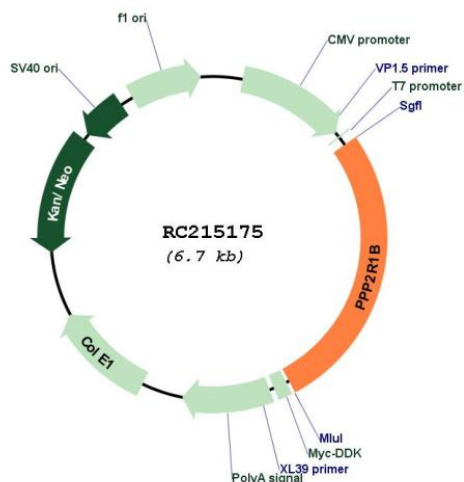
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_002716

ORF Size: 1803 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:	<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
MW:	66.2 kDa
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]