

Product datasheet for **RG224154**

PPP2R2C (NM_020416) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R2C (NM_020416) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPP2R2C
Synonyms:	B55-GAMMA; B55gamma; IMYPNO; IMYPNO1; PR52; PR55G
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG224154 representing NM_020416
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGCGAGGACACGGACACGCGGAAAATTAACCACAGCTTCTGCGGGACCACAGCTATGTGACTGAAG
 CTGACATCATCTTACCCTTGTAGTTCAACCACACGGGAGAGCTGCTGGCCACAGGTGACAAGGGCGGCCG
 GGTCTGTCATCTTCCAGCGGGAACAGAGAGTAAAAATGCGCCCCACAGCCAGGGCGAATACGACGTGTAC
 AGCACTTCCAGAGCCACGAGCCGGAGTTTACTATCTCAAGAGCCTGGAGATAGAGGAGAAGATCAACA
 AGATCAAGTGGCTCCACAGCAGAACGCCGCCACTACTCTGTCCACCAACGATAAACTATCAAATT
 ATGGAAGATTACCGAACGAGATAAAGGCCCGAAGGATACAACCTGAAGGATGAAGAGGGGAACTTAAG
 GACCTGTCCACGGTGACGTCACTGCAGGTGCCAGTGTGAAGCCCATGGATCTGATGGTGGAGGTGAGCC
 CTCGGAGGATCTTGCCAATGGCCACACCTACCACATCAACTCCATCTCCGTCAACAGTGACTGCGAGAC
 CTACATGTGCGGGATGACCTGCGCATCAACCTCTGGCACCTGGCCATCACCGACAGGAGCTTCAACATC
 GTGGACATCAAGCCGGCCAAACATGGAGGACCTTACGGAGGTGATCACAGCATCTGAGTTCCATCCGCACC
 ACTGCAACCTCTTCGTCTACAGCAGCAGCAAGGGCTCCCTGCGGCTCTGCGACATGCGGGGACGTGCCCT
 GTGTGACAAGCATTCCAAGCTCTTTGAAGAGCCTGAGGACCCAGTAACCGCTCATTCTTCTCGAAATC
 ATCTCCTCCGTGTCCGACGTGAAGTTCAGCCACAGCGGCCGTACATGCTCACCCGGGACTACCTTACAG
 TCAAGGTCTGGGACCTGAACATGGAGGCAAGACCCATAGAGACCTACCAGGTCCATGACTACCTTCGGAG
 CAAGCTCTGTTCCCTGTACGAGAAGCAGTGCATTTTCGACAAGTTTGAATGTGCCTGGAACGGGAGCGAC
 AGCGTCATCATGACCGGGCCTACAACAACCTTCTCCGCATGTTGATCGGAACACCAAGCGGGACGTGA
 CCCTGGAGGCCTCGAGGAAAGCAGCAAGCCCCGGGCTGTGCTCAAGCCACGGCGCTGTGCGTGGGGGG
 CAAGCGCCGGCGGTGATGACATCAGTGTGGACAGCTTGGACTTACCAAGAAGATCCTGCACACGGCCTGG
 CACCCGGCTGAGAACATCATTGCCATCGCCGCCACCAACACCTGTACATCTTCCAGGACAGGTAACCT
 CTGACATGCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG224154 representing NM_020416
 Red=Cloning site Green=Tags(s)

MGEDTDTRKINHSFLRDHSYVTEADIISTVEFNHTGELLATGDKGGRVVFQREPESKNAPHSQGEYDVY
 STFQSHEPEFDYLSLEIEEKINKIKWLPQNAHSLSTNDKTIKLWKITERDKRPEGYNLKDEEGKLLK
 DLSTVTSLQVPVLKPMMLMVEVSPRRIFANGHTYHINSISVNSDCETYMSADDLRINLWHLAITDRSFNI
 VDIKPANMEDL TEVITASEFHPHCNLFVYSSSKGSLRLCDMRAAALCDKHSKLFEEPEDPSNRSFFSEI
 ISSVSDVKF SHSGRYMLTRDYLTVKVWDLNMEARPIETYQVHDYLRSLKCSLYENDCIFDKFECAWNGSD
 SVIMTGAYNNFFRMFDRNTKRDVTLASRESSKPRAVLKPRRVCVGGKRRRDDISVDSLDFTKKILHTAW
 HPAENIIAIAATNNLYIFQDKVNSDMH

TRTRPLE - GFP Tag - V

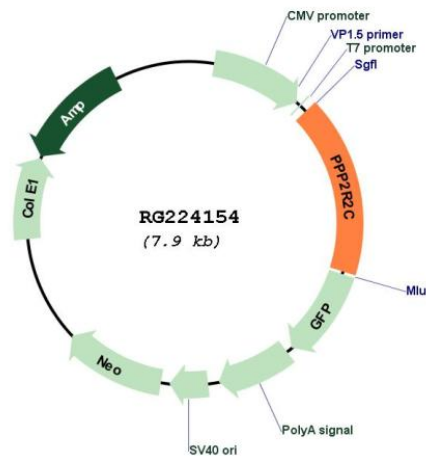
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_020416

ORF Size: 1341 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_020416.4
RefSeq Size:	4117 bp
RefSeq ORF:	1344 bp
Locus ID:	5522
UniProt ID:	Q9Y2T4
Cytogenetics:	4p16.1
Protein Families:	Druggable Genome, Phosphatase
Protein Pathways:	Tight junction
Gene Summary:	The product of this gene belongs to the phosphatase 2 regulatory subunit B family. 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 B regulatory subunit might modulate substrate selectivity and catalytic activity. This gene encodes a gamma isoform of the regulatory subunit B55 subfamily. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]