

Product datasheet for **RG230117**

PPP2R2A (NM_001177591) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R2A (NM_001177591) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPP2R2A
Synonyms:	B55A; B55ALPHA; PR52A; PR55A; PR55alpha
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG230117 representing NM_001177591
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTTCCCGAAGTTTTCTTCTGTTCTATGTTTCATGGAGCTGGAGGAGGAATGATATTCAGTGGTGTT
 TTTCTCAGGTGAAAGGAGCAGTAGATGATGTAGCAGAAGCAGATATAATTTCTACAGTAGAATTTAA
 TCATTCTGGAGAATTACTAGCAACAGGAGATAAAGGTGGTAGAGTTGTCATCTTTCAACAGGAGCAGGAG
 AACAAAATCCAGTCTCATAGCAGAGGAGAATAAATGTTTACAGCACCTCCAGAGCCATGAACCAGAGT
 TTGACTACTTGAAAAGTTTAGAAAATAGAAGAAAAGATCAACAAAATTAGTGGTTACCCAGAAAATGC
 TGCTCAGTTTTTATTGTCTACCAATGATAAAAACAATAAAATTATGGAAAATCAGTGAAAGGGACAAAAGA
 CCAGAAGGGTAACTTGAAAGAGGAGGATGGAAGGTATAGAGATCCTACTACAGTTACTACACTACGAG
 TGCCAGTCTTTAGGCCTATGGATCTAATGGTTGAGGCCAGTCCACGAAGAATATTTGCCAATGCTCATA
 ATATCACATCACTCAATTTCTATTAATAGTGATTATGAAACATATTTATCTGCAGATGATTTGCGGATT
 AATCTTTGGCATCTGGAATTACAGACAGGAGTTTTAACATTGTGGATATCAAGCCTGCCAATATGGAAG
 AGCTAACAGAGGTGATTACAGCAGCAGAATTTTCATCCAAACAGCTGTAACACATTTGTATACAGCAGCAG
 TAAAGGAACTATTCGGCTATGTGACATGAGGGCATCTGCCTCTGTGATAGACATTTCAAATTTGTTGAA
 GAACCTGAAGATCCCAGTAACAGGTCATTTTTTTCCGAAATCATCTCCTCTATTTCCGGATGTAATAATCA
 GCCATAGTGGTCGATATATGATGACTAGAGACTATTTGTGAGTCAAAAATTTGGGACTTAAATATGGAAAA
 CAGGCCTGTGGAAACATACCAGGTGCATGAATACCTCAGAAGTAACTCTGTTCACTGTATGAAAATGAC
 TGCATATTTGACAAAATTTGAATGTTGTTGGAATGGATCTGACAGTGTGTCATGACTGGATCTTACAATA
 ATTTCTTCAGAAATGTTTGACAGAAACACAAAGCGAGACATAACCCTAGAAGCATCGCGGAAAAACAATA
 GCCTCGCACAGTTCTGAAGCCTCGCAAAGTCTGTGCAAGTGGCAAGCGAAAGAAAAGATGAAATAAGTGTT
 GACAGCCTAGACTTCAATAAGAAAATCCTTACACAGCCTGGCACCCCAAGGAAAATATCATTGCCGTAG
 CTACTACAAACAATCTGTATATATTTCAAGACAAAGTGAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG230117 representing NM_001177591
 Red=Cloning site Green=Tags(s)

MFPKFLRSMFHGAGGGNDIQWCF SQVKGAVDDDVAEADIISTVEFNHSGELLATGDKGGRVVIFQQEQE
 NKIQSHSRGEYNYSTFQSHEPEFDYLSLEIEEKINKIRWLPQKNAAQFLLSTNDKTIKWKISERDKR
 PEGYNLKEEDGRYRDPPTVTTLRVPVFRPMDLMVEASPRRIFANAHTYHINSISINSDYETLSADDLRI
 NLWHLEITDRSFNIVDIKIPANMEELTEVITAAEFHPNSCNTFVYSSSKGTIRLCDMRASALCDRHSKLF
 EPEDPSNRSFFSEIISSISDVKFSHSGRYMMTRDYL SVKIWDLNMENRPVETYQVHEYLRSKLSLYEND
 CIFDKFECCWNGSDSVMTGSYNNFFRFRDRNTRKDITLEASRENNKPRTVLKPVKVCASGKRKDEISV
 DSLDFNKKILHTAWHPKENIIAVATTNNLYIFQDKVN

TRTRPLE - GFP Tag - V

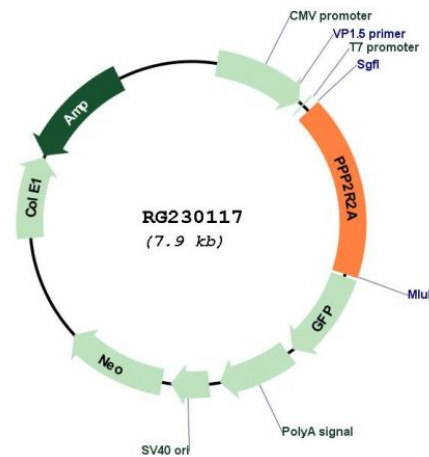
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001177591

ORF Size: 1371 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_001177591.2
RefSeq Size:	3677 bp
RefSeq ORF:	1374 bp
Locus ID:	5520
UniProt ID:	P63151
Cytogenetics:	8p21.2
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 an alpha isoform of the regulatory subunit B55 subfamily. Alternatively spliced transcript variants have been described. [provided by RefSeq, Apr 2010]