

Product datasheet for **RG208340**

PPP2R2A (NM_002717) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R2A (NM_002717) 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:

>RG208340 representing NM_002717
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCAGGAGCTGGAGGAGGAATGATATTCAGTGGTGTTTTTCTCAGGTGAAAGGAGCAGTAGATGATG
 ATGTAGCAGAAGCAGATATAATTTCTACAGTAGAATTTAATCATTCTGGAGAATTACTAGCAACAGGAGA
 TAAAGGTGGTAGAGTTGTCATCTTTCAACAGGAGCAGGAGAACAAAATCCAGTCTCATAGCAGAGGAGAA
 TATAATGTTTACAGCACCTTCCAGAGCCATGAACCAGAGTTTGACTACTTGAAAAGTTTAGAAAATAGAAG
 AAAAGATCAACAAAATTAGGTGGTTACCCAGAAAAATGCTGCTCAGTTTTTATTGTCTACCAATGATAA
 AACATAAAAATTATGGAAAATCAGTGAAAGGGACAAAAGACCAGAAGGTATAACTTGAAAGAGGAGGAT
 GGAAGGTATAGAGATCCTACTACAGTTACTACACTACGAGTGCCAGTCTTTAGGCCTATGGATCTAATGG
 TTGAGGCCAGTCCACGAAGAATATTTGCCAATGCTCATACATATCACATCAACTCAATTTCTATTAATAG
 TGATTATGAAACATATTTATCTGCAGATGATTTGCGGATTAATCTTTGGCATCTGAAAATTACAGACAGG
 AGTTTTAACATTGTGGATATCAAGCCTGCCAATATGGAAGAGCTAACAGAGGTGATTACAGCAGCAGAAT
 TTCATCCAAAACAGCTGTAAACACATTTGTATACAGCAGCAGTAAAGGAACTATTCGGCTATGTGACATGAG
 GGCATCTGCCCTCTGTGATAGACATTCTAAATTGTTTGAAGAACCTGAAGATCCCAGTAACAGGTCATTT
 TTTCCGAAATCATCTCCTCTATTTCCGGATGTAATAATTCAGCCATAGTGGTCGATATATGATGACTAGAG
 ACTATTTGTGAGTCAAAAATTTGGGACTTAAATATGGAAAACAGGCCTGTGGAAACATACCAGGTGCATGA
 ATACCTCAGAAGTAACTCTGTTCACTGTATGAAAATGACTGCATATTTGACAAAATTTGAATGTTGTTGG
 AATGGATCTGACAGTGTGTGTCATGACTGGATCTTACAATAATTTCTTCAAGATGTTTGACAGAAAACAAA
 AGCGGACATAACCCTAGAAGCATCGCGGAAAAACAATAAGCCTCGCACAGTTCTGAAGCCTCGCAAAGT
 CTGTGCAAGTGGCAAGCGAAAGAAAGATGAAAATAAGTGTGACAGCCTAGACTTCAATAAGAAAATCCTT
 CACACAGCCTGGCACCCCAAGGAAAATATCATTGCCGTAGCTACTACAAACAATCTGTATATATTTCAAG
 ACAAAGTGAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG208340 representing NM_002717
 Red=Cloning site Green=Tags(s)

MAGAGGGNDIQWCF SQVKGAVDDDDVAEADIISTVEFNHSGELLATGDKGGRVVIFQQEQENKIQSHSRGE
 YNVYSTFQSHEPEFDYLSLEIEEKINKIRWLPQKNAAQFLLSTNDKTIKWKISERDKRPEGYNLKEED
 GRYRDPPTVTTLRVPVFRPMDLMVEASPRRIFANAHTYHINSISINSDYETYL SADDLRINLWHEITDR
 SFNIVDIKPANMEELTEVITAAEFHPNSCNTFVYSSSKGTIRLCDMRASALCDRHSKLFEEPEDPSNRSF
 FSEIISSISDVKFSHSGRYMMTRDYL SVKIWDLNMENRPVETYQVHEYLRSKLC SLYENDCIFDKFECCW
 NGSDSVMTGSYNNFRMFDRNTRKRDITLEASRENNKPRTVLKP RKVCASGKRKKDEISVDSLDFNKKIL
 HTAWHPKENIIAVATTNNLYIFQDKVN

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_002717

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:

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_002717.4](#)

RefSeq Size: 2385 bp

RefSeq ORF: 1344 bp

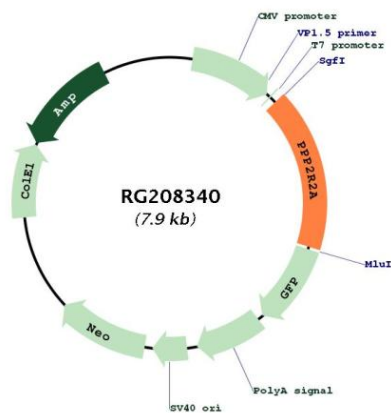
Locus ID: 5520

UniProt ID: [P63151](#)

Cytogenetics: 8p21.2

Domains:	WD40
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]

Product images:



Circular map for RG208340