

Product datasheet for **RG230827**

PPP2R3A (NM_001190447) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PPP2R3A (NM_001190447) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PPP2R3A
Synonyms: PPP2R3; PR72; PR130
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG230827 representing NM_001190447
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGCAACTTACAGACTTGTGGTTAGTACTGTGAACCACTACAGCAGCGTGGTGATAGACCGCGT
TTGAACAAGCTATACATTATTGCACTGGAACCTGCCACACCTTCACACATGGAATTGACTGCATTGTGGT
ACACCATAGTGTGTGCGAGACCTTGCACATCCCTGTGTCTCAGTTCAAAGATGCAGATCTGAACTCT
ATGTTTCTACCCATGAAAATGGGCTTTCTTCGGCTGAAGGAGACTATCCCAACAGGCCTTCACAGGCA
TACCCAGGTCAAGAGAGGATCTACATTCAGAATACCTACAACCTAAAGGATATTGCAGGAGAAGCAAT
CAGTTTTGCCAGTGGGAAAATAAAGAATTTCTTTGAAAACTCAAAAACCTAACCATGCAGCTTAC
AGAAAGGGAAGGAAAGTTAAGTCTGACTCATTTAATAGGAGGTCAGTTGATTTGGACTTGCTTTGTGGCC
ATTATAACAACGATGGGAACGCCCATCCTTTGGTTTACTGCGGAGTTCCCTCAGTTGAGGAAAAACCTTT
GTCTCATAGAAACTCACTGGATACGAACCTGACTTCCATGTTTCTTCAAACTTTTCTGAAGAAGACTTG
GTTACTCAGATTTTGGAAAAACATAAATAGATAAATTTTCTTCTGGACAGACATAAAGATGTGCTTGG
ACATCTTATTGAAATGCTCCGAGGATTTAAAAAATGCACAGACATCAAAAACATGCATAAAGAAAA
ATCAGGGAGTAGCATCAGTGAAGGAAGTGGTAATGATACAATTTCTAGCTCTGAACTGTCTATATGAAT
GTAATGACCAGGTAGCATCCTATCTGAAAAAGTTACCATTTGAATTCATGCAGTCTGGGAATAATGAGG
CTCTAGATTTAACAGAACTGATCAGTAATATGCCTAGCTTACAACCTGACTCCCTTCTCCCAAGTGTGG
CACTGAACAACCCCTAAATATGAAGATGTTGTCCAGCTCTCAGCTTCTGACTCTGGACGATTTCAAAC
ATTGAATTGCAAAATGACAAGCCTAATTCTAGGAAGATGGACACTGTACAATCCATTCCAACAACCTCCA
CAAATTCCTTATAAAGTTAGAGGTAATGATCCTAGAACTCTAAAAGCTGTCCAGGTCCAATCACAGTC
ATTAACCATGAATCCTTTAGAAAATGTTTCTTCTGACGACTTAATGGAACTCTTTATATTGAAGAAGAG
TCAGATGGAAAGAAAGCATTAGATAAAGGACAAAAGACAGAGAATGGACCTAGTCATGAGTTATTAAGG
TAAATGAACATAGAGCAGAATTTCCAGAACATGCTACTCATCTTAAAAAATGCCCAACCAATGCAAAA
TGAATTGGTAAGATATTTGAGAAATCATTGTTAATCTACCTAAGGAAGACTGTAATCAAAGTTTCT



[View online >](#)

AAATTTGAAGAGGGAGACCAGAGAGATTTTACAAATCCAGTAGCCAGGAAGAGATAGATAAATTGTAA
TGGATTTGGAATCTTTTTACAGAAGATGGAGACCTCTCTAAGAGAGCCACTTGCGAAGGGTAAAACTC
TAATTTTTTAAATAGTCACAGTCAGTTGACCGGTCAGACCCTTGTAGATCTTGAGCCTAAATCTAAAGTC
TCTTCACCCATAGAAAAAGTCTCACCTTCTGTCTAACAAGGATTATTGAAACCAATGGACACAAAAATAG
AGGAAGAGGATCGAGCCCTTACTGCGAATCCTGGAAGCATTGAAGACTTTGCTCAAGAACTAGTTGA
ATGCAAACTAAGCAGAGGGAGCCTATACAAGAAAAGGAAATGATGCAAACTTACAGGAAACCTTGACA
ACTTCTCCAGGCCAATTTATCAGTCTGTAGAAGTCTGTTGGTGATAAAGCCAAAGATACTACTTCAG
CAGTTTTGATTCAGCAGACTCCAGAGGTGATCAAGATTCAAATAAACCAGAAAAGAAACCTGGAACACC
ACTCCACCTCCAGCCACCTCTCCAAGTGTCCCGACCTCTCTCCCGGTTCCCATGTGAATAATGTT
GTGAATGCGCCATTGTCCATAAACATTCACGGTCTACTTTCCTGAAGGACTCCAGATACCTGTAGTA
ATCATGAACAACTCTAAGCAGAATTGAACTGCTTTCATGGATATTGAAGAACAGAAAGCAGACATTTA
TGAAATGGGAAAATTGCAAAGGTCTGTGGCTGCTCTCTATTGGAAAGCCCCATGTTGAGGGCTGCA
GGGGGAGAGAAGACAGGATTTGTGACAGCACAGTCATTGATGCCATGTGGAGAAAGTTGCTGAATAACC
ATCATGATGATGCCTCTAAATTCATCTGTCTTAGCAAAGCCCAACTGCAGCTCTTAGAACAGGAGGA
TTTCATCCCTCTACTTCAGGATGTGGTGGATACCCACCCTGGTCTCACGTTCTGAAAGATGCTCCAGAA
TTCCACTCCCCTACATCACCACGGTATTTCAGAGAATATTCTACACAGTCAACAGATCTTGAGGTGGAA
AAATTAATTCGACAGAGATAAGAAAAAGCAACTTTTTGCAAACCCTAGCACTTTTGGAAAGAGGGAAGA
TATAAACCAAAATTACAGATTACTTCTCCTATGAACATTTCTATGTTATTTATTGTAATTTCTGGAACTA
GATACTGATCACGACCTCTACATCAGCCAGGCCGATCTGTCTCGATACAATGACCAGGCTTCATCAAGCA
GGATTATTGAAAGGATATTCTCTGGTGCAGTACAAGGGGAAAAACAATACAGAAAGAGGGAAGAATGAG
CTATGCAGATTTGTTGGTTTTGATCTCTGAAGAAGACAAAAGGAATCCTACCAGCATTGAGTATTGG
TTCCGCTGCATGGATGTGGATGGAGACGGTGTACTCTCCATGTATGAGCTGGAGTACTTCTATGAGGAGC
AGTGTGAACGGATGGAAGCCATGGGAATTGAGCCCTTGCCATTCCATGATTTACTGTCCAGATGCTTGA
CCTAGTGAAGCCAGCTGTTGATGGCAAAATAACTCTAAGAGATCTGAAGAGGTGCAGAATGGCTCACATC
TTCTATGACACTTTCTTTAATCTGGAGAAATACTTAGACCATGAACAGAGAGATCCCTTTGCGGTCCAGA
AGGATGTTGAGAACGATGGGCCTGAGCCCTCAGACTGGGACCGGTTTGCCGCTGAGGAGTATGAGACGCT
TGTTGCAGAGGGATCTGCCCAAGCACAATTCAGGAAGGCTTTGAAGATTATGAAACAGATGAACCTGCC
TCTCCCTCTGAATTTGAAACAAAAGCAATAAAATATTAAGTGAAGCCTTCAGAGAAATGTGGAAGC
TTCAATCAGTGGATGAAGAA

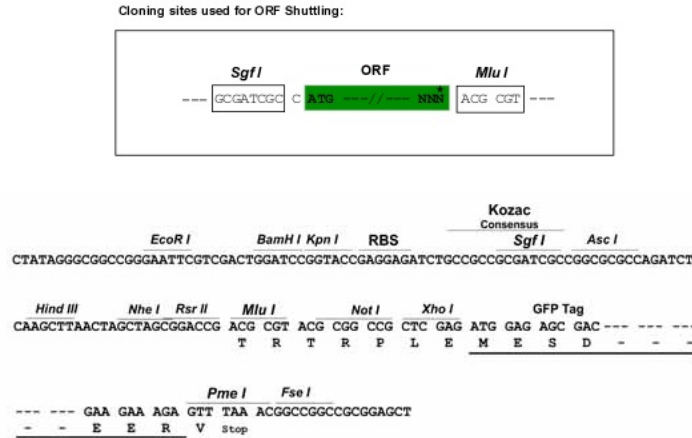
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG230827 representing NM_001190447
 Red=Cloning site Green=Tags(s)

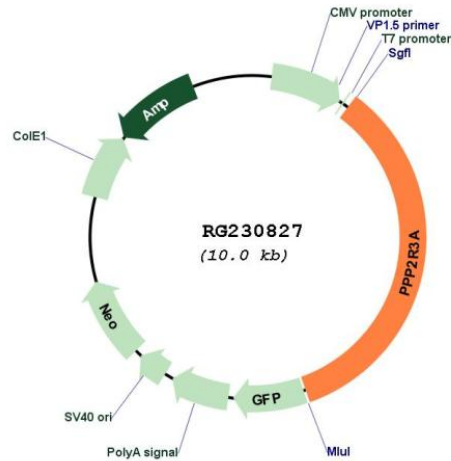
MAATYRLVSTVNHYSVVIDRRFEQAIHYCTGTCHTFTTHGIDCIVVHHSVCADLLHIPVSQFKDADLNS
 MFLPHENGLSSAEGDYPQQAFTGIPRVKRGSTFQNTYNLKDIAGEAISFASGKIKEFSFEKLNKSNHAAY
 RKGRKVKSDSFNRRSVDLDLLCGHYNNDGNAPSFGLLRSSVVEEKPLSHRNSLDTNLTSMFLQNFSEEDL
 VTQILEKHKIDNFSGGTDIKMCLDILLKCESEDLKKTCDI IKQC IKKSGSSI SEGSGNDT ISSSETVYMN
 VMTRLASYLKLPFEFMQSGNNEALDLTELI SNMPSLQL TPFSPVFGTEQPPKYEDVVQLSASDSGRFQT
 IELQNDKPNRKMMDTVQSI PNNSNLSL YNLEVNDPRTLKAVQVQSQSL TMNPLENVSSDDL METLYIEE
 SDGKKALDKGQKTENGP SHELLKVNEHRAEFPEHATHLKKCTPMQNEIGKIFEKSFVNLPKEDCKSKVS
 KFEEGDQRDFTNSSSQEEIDKLLMDLESFSQKMETSLREPLAKGKNSNFLNSHSQLTGQTLVDLEPKSKV
 SSPIEKVSPSCL TRI IETNGHKIEEEDRALLRLI LESIEDFAQELVECKSSRGSLSQEKEMMQILQETLT
 TSSQANL SVCRSPVGD KAKD TTS AVLIQQTPEVIKI QNKPEKPGT PLPPPATSPSPRPLSPVPHVNNV
 VNAPLSINIPRFYFPEGLPDTCSNHEQTL SRIETAFMDIEEQADIYEMGKI AKVCGCPL YWKAPMFRAA
 GGEKTGFVTAQSF IAMWRKLLNNHDDASKFICLLAKPNCSSLEQEDFI PLLQDVVDTHPGLTFLKDAPE
 FHSRYITTVIQRIFYTVNRSWSGKITSTEIRKSNFLQTLALLEEEEDINQITDYFSYEHFYVIYCKFWEL
 DTDHDL YISQADLSRYNDQASSRIIERIFSGAVTRGKTIQKEGRMSYADFVWFLISEEDKRNPSTIEYW
 FRCMDVDGDGVL SMYELEYFYEEQCERMEAMGIEPLPFHDLLCQMLDLVKPAVDGKITLRDLKRCRMAHI
 FYDTFFNLEKYL DHEQRDPFAVQKDVENDGPEPSDWDRF AAE EYETLVAEGSAQAQFQEGFEDYETDEPA
 SPSEFGNKS NKILSASLPEKCGKLQSVDEE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI
 Cloning Scheme:



Plasmid Map:



ACCN: NM_001190447

ORF Size: 1242 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001190447.1](#), [NP_001177376.1](#)

RefSeq Size: 4379 bp

RefSeq ORF: 1245 bp

Locus ID: 5523

UniProt ID: [Q06190](#)

Cytogenetics: 3q22.2-q22.3

Protein Families: Druggable Genome, Phosphatase

Gene Summary: This gene encodes one of the regulatory subunits of the protein phosphatase 2. Protein phosphatase 2 (formerly named type 2A) is one of the four major Ser/Thr phosphatases and is implicated in the negative control of cell growth and division. Protein phosphatase 2 holoenzymes are heterotrimeric proteins composed of a structural subunit A, a catalytic subunit C, and a regulatory subunit B. The regulatory subunit is encoded by a diverse set of genes that have been grouped into the B/PR55, B'/PR61, and B''/PR72 families. These different regulatory subunits confer distinct enzymatic specificities and intracellular localizations to the holoenzyme. The product of this gene belongs to the B'' family. The B'' family has been further divided into subfamilies. The product of this gene belongs to the alpha subfamily of regulatory subunit B''. Alternative splicing results in multiple transcript variants encoding different isoforms.[provided by RefSeq, Jun 2010]