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Product datasheet for RG215798

PPP2R3A (NM_181897) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	PPP2R3A
Synonyms:	PPP2R3; PR72; PR130
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG215798 representing NM_181897
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGATCAAGGAAACATCTCTACGAAGGGACCCGGATTTAAGGGGAGAGCTAGCTTTCCTGGCAAGGG
GCTGTGATTTTGTTCTCCCTTCACGGTTTAAGAAGCGGCTGAAGTCATTTCAGCAGACACAGATTCAAAA
TAAACCAGAAAAGAAACCTGGAACACCACTCCCACCTCCAGCCACCTCTCCAAGTAGTCCCCGACCTCTC
TCCCCGGTTCCCCATGTGAATAATGTTGTGAATGCGCCATTGTCCATAAACATTCCACGGTTCTACTTTC
CTGAAGGACTCCCAGATACCTGTAGTAATCATGAACAAACTCTAAGCAGAATTGAAACTGCTTTCATGGA
TATTGAAGAACAGAAAGCAGACATTTATGAAATGGGGAAAATTGCAAAGGTCTGTGGCTGTCCTCTCTAT
TGGAAAGCCCCCATGTTCAGGGCTGCAGGGGGAGAGAAGACAGGATTTGTGACAGCACAGTCATTCATTG
CCATGTGGAGAAAGTTGCTGAATAACCATCATGATGATGCCTCTAAATTCATCTGTCTTCTAGCAAAGCC
CAACTGCAGCTCTCTAGAACAGGAGGATTTCATCCCTCTACTTCAGGATGTGGTGGATACCCACCCTGGT
CTCACGTTCCTGAAAGATGCTCCAGAATTCCACTCCCGCTACATCACCACGGTTATTCAGAGAATATTCT
ACACAGTCAACAGATCTTGGAGTGGAAAAATTACTTCGACAGAGATAAGAAAAAGCAACTTTTTGCAAAC
CCTAGCACTTTTGGAAGAAGAGGAAGATATAAACCAAATTACAGATTACTTCTCCTATGAACATTTCTAT
GTTATTTATTGTAAATTCTGGGAACTAGATACTGATCACGACCTCTACATCAGCCAGGCCGATCTGTCTC
GATACAATGACCAGGCTTCATCAAGCAGGATTATTGAAAGGATATTCTCTGGTGCAGTAACAAGGGGAAA
AACAATACAGAAAGAGGGAAGAATGAGCTATGCAGATTTTGTTTGGTTTTTGATCTCTGAAGAAGACAAA
AGGAATCCTACCAGCATTGAGTATTGGTTCCGCTGCATGGATGTGGATGGAGACGGTGTACTCTCCATGT
ATGAGCTGGAGTACTTCTATGAGGAGCAGTGTGAACGGATGGAAGCCATGGGAATTGAGCCCTTGCCATT
CCATGATTTACTGTGCCAGATGCTTGACCTAGTGAAGCCAGCTGTTGATGGCAAAATAACTCTAAGAGAT
CTGAAGAGGTGCAGAATGGCTCACATCTTCTATGACACTTTCTTTAATCTGGAGAAATACTTAGACCATG
AACAGAGAGATCCCTTTGCGGTCCAGAAGGATGTTGAGAACGATGGGCCTGAGCCCTCAGACTGGGACCG
GTTTGCCGCTGAGGAGTATGAGACGCTTGTTGCAGAGGAATCTGCCCAAGCACAATTCCAGGAAGGCTTT
GAAGATTATGAAACAGATGAACCTGCCTCTCCCTCTGAATTTGGAAACAAAAGCAATAAAATATTAAGTG
CAAGCCTTCCAGAGAAATGTGGAAAGCTTCAATCAGTGGATGAAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

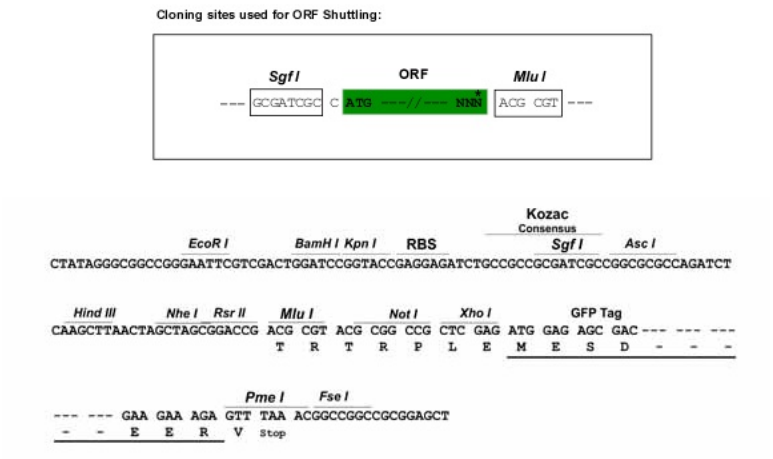
>RG215798 representing NM_181897
Red=Cloning site Green=Tags(s)

MMIKETSLRRDPDLRGELAFLARGCDFVLPSRFKKRLKSFQQTQIQNKPEKKPGTPLPPPATSPSSPRPL
SPVPHVNNVVNAPLSINIPRFYFPEGLPDTCSNHEQTLSRIETAFMDIEEQKADIYEMGKIAKVCGCPLY
WKAPMFRAAGGEKTGFVTAQSFIAMWRKLLNNHHDDASKFICLLAKPNCSSLEQEDFIPLLQDVVDTHPG
LTFLKDAPEFHSRYITTVIQRIFYTVNRSWSGKITSTEIRKSNFLQTLALLEEEEDINQITDYFSYEHFY
VIYCKFWELDTDHDLYISQADLSRYNDQASSSRIIERIFSGAVTRGKTIQKEGRMSYADFVWFLISEEDK
RNPTSIEYWFRCMDVDGDGVLSMYELEYFYEEQCERMEAMGIEPLPFHDLLCQMLDLVKPAVDGKITLRD
LKRCRMAHIFYDTFFNLEKYLDHEQRDPFAVQKDVENDGPEPSDWDRFAAEEYETLVAEESAQAQFQEGF
EDYETDEPASPSEFGNKSNKILSASLPEKCGKLQSVDEE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_181897

ORF Size: 1587 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_181897.3

RefSeq Size: 4664 bp

RefSeq ORF: 1590 bp

Locus ID: 5523

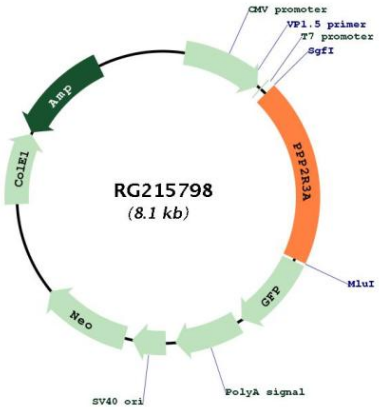
UniProt ID: Q06190

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 holozenzyme. 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]

Product images:



Circular map for RG215798