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Product datasheet for RG218476

PPP1R16B (NM_015568) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP1R16B (NM_015568) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPP1R16B
Synonyms:	ANKRD4; TIMAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>RG218476 representing NM_015568
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCAGTCACGTGGACCTGCTGACGGAGCTGCAGCTGCTGGAGAAGGTGCCCACGCTGGAGCGGCTGC
GGGCTGCCCAGAAGCGCCGGGCCCAGCAGCTGAAGAAATGGGCACAGTACGAGCAGGACTTGCAGCACCG
CAAGCGAAAGCATGAGCGGAAGCGCAGCACGGGCGGCCGCCGCAAGAAAGTGTCCTTCGAGGCCAGCGTG
GCCCTGCTGGAGGCCTCGCTGAGGAACGACGCCGAGGAAGTACGCTACTTCCTGAAGAATAAGGTCAGCC
CTGATTTGTGCAATGAGGACGGACTCACAGCCCTACACCAGTGCTGCATCGACAACTTTGAGGAAATTGT
GAAGCTGCTCCTCTCCCATGGTGCCAATGTGAACGCCAAGGACAACGAGCTGTGGACACCTCTCCATGCT
GCAGCCACCTGCGGCCACATCAACCTGGTGAAGATCCTCGTTCAGTATGGGGCCGACTTGCTTGCTGTCA
ACTCGGATGGGAACATGCCATATGACCTCTGCGAGGATGAACCCACCCTGGATGTCATCGAGACCTGCAT
GGCATACCAGGGCATCACCCAAGAGAAAATCAACGAGATGCGGGTGGCTCCTGAGCAGCAGATGATTGCG
GACATCCACTGCATGATCGCAGCGGGCCAGGACCTGGACTGGATAGATGCCCAGGGTGCCACACTGCTGC
ACATAGCTGGAGCCAATGGATACCTGCGGGCAGCTGAGCTCCTCCTGGATCATGGAGTGCGTGTGGATGT
GAAGGACTGGGATGGCTGGGAGCCCCTGCATGCAGCTGCCTTCTGGGGACAGATGCAGATGGCAGAGCTA
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AGGAAGAGTTCAAGGTCCTGCTGCTGGAGCTAAAACACAAGCATGATGTGATCATGAAGTCACAGCTGAG
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CTGTCGGACAGGACCAACCTGTATAGGAAGGAGTATGAGGGAGAGGCCATCCTGTGGCAGCGGAGTGCAG
CTGAGGATCAGCGGACCTCCACCTACAACGGGGACATCAGGGAGACCAGGACAGACCAAGAGAATAAGGA
CCCTAACCCCAGGCTGGAGAAGCCCGTGCTACTCTCCGAATTTCCTACCAAGATCCCACGAGGTGAACTG
GACATGCCTGTTGAGAATGGCCTCCGGGCTCCGGTCAGTGCCTACCAGTATGCGCTGGCCAACGGGGATG
TCTGGAAGGTGCATGAGGTGCCTGACTACAGCATGGCCTATGGCAACCCTGGCGTGGCCGACGCCACCCC
GCCCTGGAGCAGCTACAAGGAACAGAGCCCTCAGACGCTTCTGGAGCTGAAGCGGCAGCGGGCTGCAGCC
AAGCTGCTCAGCCACCCCTTCCTTAGCACACACCTGGGCAGCAGCATGGCCAGGACGGGCGAGAGTAGCA
GTGAAGGCAAGGCCCCCTTGATCGGAGGCAGAACTTCACCGTACAGCAGCAATGGGACCTCGGTATATTA
CACGGTCACCAGCGGAGATCCCCCACTCTTAAAGTTCAAGGCCCCCATAGAGGAGATGGAGGAGAAGGTG
CATGGCTGTTGCCGTATCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

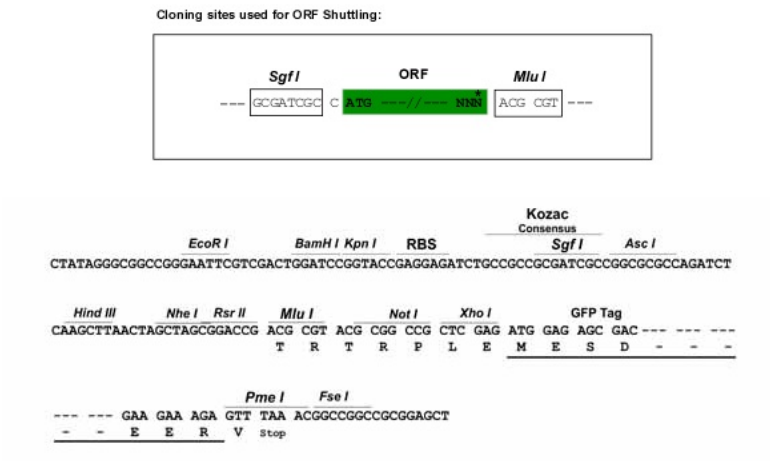
>RG218476 representing NM_015568
Red=Cloning site Green=Tags(s)

MASHVDLLTELQLLEKVPTLERLRAAQKRRAQQLKKWAQYEQDLQHRKRKHERKRSTGGRRKKVSFEASV
ALLEASLRNDAEEVRYFLKNKVSPDLCNEDGLTALHQCCIDNFEEIVKLLLSHGANVNAKDNELWTPLHA
AATCGHINLVKILVQYGADLLAVNSDGNMPYDLCEDEPTLDVIETCMAYQGITQEKINEMRVAPEQQMIA
DIHCMIAAGQDLDWIDAQGATLLHIAGANGYLRAAELLLDHGVRVDVKDWDGWEPLHAAAFWGQMQMAEL
LVSHGASLSARTSMDEMPIDLCEEEEFKVLLLELKHKHDVIMKSQLRHKSSLSRRTSSAGSRGKVVRRAS
LSDRTNLYRKEYEGEAILWQRSAAEDQRTSTYNGDIRETRTDQENKDPNPRLEKPVLLSEFPTKIPRGEL
DMPVENGLRAPVSAYQYALANGDVWKVHEVPDYSMAYGNPGVADATPPWSSYKEQSPQTLLELKRQRAAA
KLLSHPFLSTHLGSSMARTGESSSEGKAPLIGGRTSPYSSNGTSVYYTVTSGDPPLLKFKAPIEEMEEKV
HGCCRIS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_015568
ORF Size:	1701 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_015568.2, NP_056383.1
RefSeq Size:	6251 bp
RefSeq ORF:	1704 bp
Locus ID:	26051

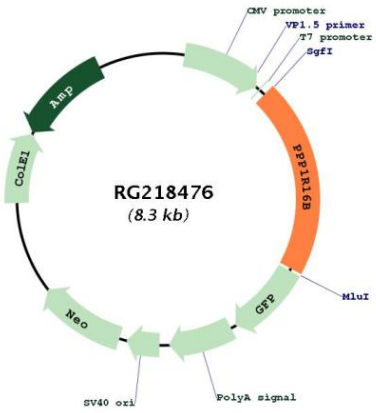
UniProt ID: Q96T49

Cytogenetics: 20q11.23

Protein Families: Druggable Genome

Gene Summary: The protein encoded by this gene is membrane-associated and contains five ankyrin repeats, a protein phosphatase-1-interacting domain, and a carboxy-terminal CAAX box domain. Synthesis of the encoded protein is inhibited by transforming growth factor beta-1. The protein may bind to the membrane through its CAAX box domain and may act as a signaling molecule through interaction with protein phosphatase-1. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate mature protein. [provided by RefSeq, Sep 2015]

Product images:



Circular map for RG218476