

Product datasheet for **RG208548**

PPP1R16A (NM_032902) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP1R16A (NM_032902) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPP1R16A
Synonyms:	MYPT3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208548 representing NM_032902
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCGAGCACCTGGAGCTGCTGGCAGAGATGCCCATGGTGGCAGGATGAGCACACAGGAGCGGCTGA
 AGCATGCCAGAAGCGGGCGGCCAGCAGGTGAAGATGTGGGCCAGGCTGAGAAGGAGGCCAGGGCAA
 GAAGGGTCTGGGAGCGTCCCCGAAGGAGGCAGCCAGCCAAGGGCTCCTGAAGCAGGTCTCTCCCT
 CCCAGTGTTCCTTCTGGAGGCGCTGCCGAAATGACCTGGAAGAAGTCCGCCAGTTCCTTGGGAGTG
 GGGTCAGCCCTGACTTGGCCAACGAGGACGGCCTGACGGCCCTGCACCAGTGTGCATTGATGATTTCCG
 AGAGATGGTGCAGCAGCTCCTGGAGGCTGGGGCCAACATCAATGCCTGTGACAGTGTGCTGGACGCT
 CTGCATGTGCGGCCACCTGCGGCCACCTGCACCTGGTGGAGTGTCTATCGCCAGTGGCGCCAATCTCC
 TGGCGGTCAACACCGACGGGAACATGCCCTATGACCTGTGTGATGATGAGCAGACGCTGGACTGCCTGGA
 GACTGCCATGGCCGACCTGGCATCACCCAGGACAGCATCGAGGCCGCCGGGCCGTGCCAGAACTGCGC
 ATGCTGGACGACATCCGGAGCCGGCTGCAGGCCGGGCAGACCTCCATGCCCCCTGGACCACGGGGCCA
 CGCTGCTGCACGTGCGAGCCGCCAACGGGTTACGCGAGGCGGCTGCCCTGCTGCTGGAACACCGAGCCAG
 CCTGAGCGCTAAGGACCAAGACGGCTGGGAGCCGCTGCACGCCGCGGCTACTGGGGCCAGGTGCCCTG
 GTGGAGCTGCTCGTGGCGCACGGGGCCGACCTGAACGCAAAGTCCCTGATGGACGAGACGCCCTTGATG
 TGTGCGGGGACGAGGAGGTGCGGGCCAAGTGTGGAGCTGAAGCACAAGCACGACGCCCTCTGCGCGC
 CCAGAGCCGCCAGCGTCTTGTGCGCCGCGCACCTCCAGCGCCGGCAGCCGGGAAGTGGTGAGG
 CGGGTGAGCCTAACCCAGCGCACCGACCTGTACCGCAAGCAGCAGCCAGGAGGCCATCGTGTGGCAAC
 AGCCGCGCCACCAGCCGGAGCCGCGCCGAGGACAACGATGACCGCCAGACAGGCGCAGAGCTCAGGCC
 GCGGCCCGGGAGGAGGACAACCCGAAGTGGTACAGCCGCACAATGGCCGAGTAGGGGGCTCCCCAGTG
 CGGCATCTATACTCCAAGCGACTAGACCGAGTGTCTCCTACCAGCTGAGCCCCCTGGACAGCACCCACC
 CCCACACCCTGGTCCACGACAAGGCCACCACACCCTGGCTGACCTGAAGCGCCAGCGAGCTGTGCCAA
 GCTGCAGCGACCCACCTGAGGGGCCGAGAGCCCTGAGACAGCTGAGCCTGGCCTGCCTGGTGACAGG
 GTGACCCCGAGCTGACTGTGGCTTACGGGCAGGCGGGACCCACCCCTGCTCAAGCTCACAGCCCGG
 CGGTGGAGGCTCCCGTGGAGAGGAGGCCGTGCTGCTGCTCATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG208548 representing NM_032902
 Red=Cloning site Green=Tags(s)

MAEHELLEAEMPMVGRMSTQERLKHAKRRAQVQKMWQAQAEKAQKKGPERPRKEAASQGLLKQVLF
 PSVLLLEAAARNDL EEVRQFLGSGVSPDLANEDGLTALHQCCIDDFREMVQQLLEAGANINACDSECWTP
 LHAAATCGHLHLVELLIASGANLLAVNTDGNMPYDLCDDEQTLDCLETAMADRGITQDSIEAARAVPELR
 MLDDIRSRLQAGADLHAPLDHGATLLHVAANGFSEAAALLLEHRASLSAKDQDGWEPLHAAAYWQVPL
 VELLVAHGADLNAKSLMDETPLDVCGDEEVRAKLELKHKHDALLRAQSRQSRLLRRRTSSAGSRGKVV
 RVSLTQRTDLYRQHAQEAIVWQPPPTSPEPPEDNDRQTGAELRPPPEEDNPEVVRPHNGRVGGSPV
 RHLYSKRLDRSVSYQLSPLDSTTPHTLVHDKAHTLADLKRQRAAAKLQRPPEGPESPETAEPGLPGDT
 VTPQPCGFRAGGDPPLKLTAPAVEAPVERRPCLLM

TRTRPLE - GFP Tag - V

Restriction Sites:

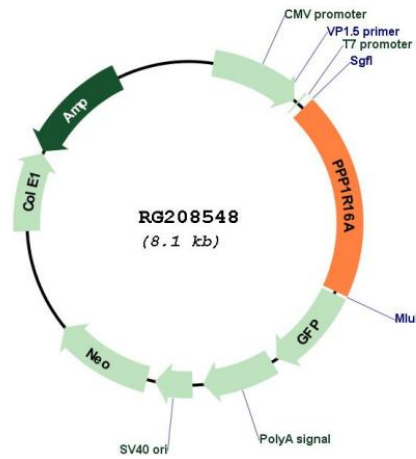
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_032902
ORF Size:	1584 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_032902.7
RefSeq Size:	2326 bp
RefSeq ORF:	1587 bp
Locus ID:	84988
UniProt ID:	Q96I34
Cytogenetics:	8q24.3
Domains:	ANK
Gene Summary:	Myosin light chain kinase and phosphatase (MLCP) complexes control the phosphorylation states of regulatory myosin light chains, which is crucial for muscle and intracellular movement. MLCPs typically contain a catalytic protein phosphatase 1 (PP1c) subunit, a myosin phosphatase targeting (MYPT) subunit, and another smaller subunit. The protein encoded by this gene represents an MYPT subunit, which is responsible for directing PP1c to its intended targets. However, while the phosphorylation of other MYPT members results in PP1c inactivation, phosphorylation of the encoded protein by protein kinase A results in PP1c activation. [provided by RefSeq, Jan 2020]