

## Product datasheet for **MG216554**

### PPP1R3A (NM\_080464) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPP1R3A (NM_080464) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPP1R3A
Synonyms:	GM; RG1; RGL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG216554 representing NM_080464 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCCCGCTGAAGAACCTGGTCAGATTAGCAAAGATAACTTTTTAGAAGTTCCTAATCTGTCTGATT  
CTGTGTGTGAGGATGAAGAAGTTAAGGCGACCTCAAGCCTGGCTTCTCCCCTCAGCCAAGCAGACGCGG  
GTCAGGATCTTCGGAAGACATGTATCTGGACACTCCAACCTCAGCTTCCCGGAGAGTTTCCCTTGTCTGAC  
AGCCTGGGATTCAGCCTTGTGTCTGTTAAAGAATTTGATTGCTGGAACTACCCAGTGTTCAACTGATT  
TTGACTTAAGTGGGGATGTTTTCCACACAGATGAATATGTTTTATCTCCACTGTTTGACTTGCCTTCTTC  
AAAAGAAAAGCTTATGGAACAACCTCAAGTCCAGAAAGCCGTGCTGGAGTCCGCTGAACACCTTCCCGGG  
TCAAGCATGAAGGGCATTATTCGAGTCCTGAACATTTCTTTTGAGAAGTTAGTGTATGTGCGCATGTCTT  
TGGATGACTGGCAGACACATTATGACATTTTAGCAGAATATGTTCCCTAACTCGTGCAGCGGTGAGACTGA  
CCAATTCTCTTTAAGATTTTCAATGGTTCCACCTTATCAAAAAGAGGGCGGTAAGTGGAGTTTTGTATA  
CGCTATGAAAATTCTGCTGGCACATTTGGTCAAATAAATGGCACAAATATATATTGGTTTGTCAA  
AGAAGAGGAAGGAGCCAGAGCCTGTAAGCCATTGGAAGAAGCACCTAGCAGACAATAAAAGGCTGCTT  
AAAGGTAATAACACGCAGTAAAGAAGAACCATTGCTAGCACCAGAAGAAAATAAATTTGAGACTTTAAAG  
TTCACAGAGTCTACATCCCAACAATCATTGTTCTCACGAGGACAAGGATGACTTGGGAGCCAATCATC  
CAAATGTAGACGATATCAACAAGAAGCATGACGAACACAATGAAAGGAGCTAGACTTGATGATAAACCA  
ACGGTTAATAACTTCCCAGGATGAAAAGAATACATTTGCAACAGATACAGTCAATTTTACAATAAAGCT  
GAAGGGTCAGAGAAGAAGCAAGCTTACCATGAAATCAACACTGACTTGTTCATGGGGCCTTTGTCTCCAA  
GTTTATCAGCAGAAAGTTCCTTAAAGCGAGATTTCTATCATAGCAGAAGTTCTTCCCAGGAAATGAATA  
TGGTCATCCACATTCAGAAGAAATTTTTCAGATATGGGAGAAAAGGTCCATCACTGGGAGACTAGT  
TCTGATGAGTTAATGCAATTGGAACCTGTCAGCAAGGAAGACCTGGATGATAATGCCAACCCAGCCAATG  
GGAGTGGCAGAGTGTCTTCTTTCGATCAAAGAATGGCATGTGGTCTCAAGAATAATGAAGCAGGAAT  
CAAGAAAAGTGAATACAAGATTACAAATATTCACATGGAGATTCACAAAATTGGAAGAGTCAAATGCA



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TCTTCCAGAGATGATTATGCCAAAGTCGATAATAAAAAGGAGAAGCAAACATGCTTAGGTGTTAATGAAA  
 ACCCAAGCAAGAAATTTTCAATCAGTATCCAGACCCAAGAGGGACACATGGGGTACCCAAAAATAAGCAC  
 TGAAGGGGATAAAGCTAATAACCAAGACTTGACAAGTCTACTGAGCAAAGATATTACAGCTAACACCTGG  
 GCGGTGACAGTGGATCCCTGTCTTCCACAAATGCAAAAAGGAGTTGGAGAGAAGTTGGAAGTGGTAGCA  
 ATTTAGAACCAGGAAGTGTGATCTTAGTTCTCCAAGGAATTTGAGCCCTCTGACTGATGATCATCTTTT  
 TCAAGCTGACAGGGAAAACCTCAGACTCTAGCAATCCTGAAAATCAGAATATGAACACACGCATAGAAAA  
 AAATGGAACGTTCTGAAAACCCAGTCAGAAAACAAGTGAGACTGAATCAGATATAGCCAAGCATACCAAAG  
 AACCAAGCAGAGTATAAAGACATGTGGGAAAAAACAGATAACAGTAGGAATCTGAAAAGCTACTCCTACAGA  
 ACACTTGTTTACCTGCCGAGAGACAGAATGCTACGGACTGTCTTCTTCTGCTGATCATGGTATTACTGAG  
 AAAGCACAAAGCAGTTACAGCTTATATAATTAAGACAACATTAGAAAAGTACTCCAGAAAAGCGCTCTGCTA  
 GAGGAAAAGCAATAATTGCTAAGCTACCTCAAGAGACAGCAGGAAATGACAGGCCATCGAGGTAAGAA  
 AACAGCGTTTGTCCACATGAAGGGAGGAAAGATGATTACATTATTCCCTTTGTCATGGAGATACAGCA  
 GGTGTAATCCATGACAATGATTTTGAAGGGAGTACATTTAGATATTTGTAATTTACGTGTGGATGAAA  
 TGAAGAAGGAGAAAACCATCTACGTGCTTTCCTCAGAAGACATATGACAAGGAGAAAACATGGAATTGG  
 AAGTGTAAACATCTATAGACGAACCTTACAGGTCATTACAGGCAATCAAAAAGCTACGTCAAACCTGGAT  
 TTACATTTGGGAGTGTTACCAACAGACAGAGCAATATTCCAAGCAAATGCAGATCTTGAGCTGCTTCAAG  
 AATTATCAAGGAGAACAGACTTCAACGCCGTTCCCTCTGCATTTAACTCAGACACTGCCAGCGCTTCTCG  
 GGACAGCTCTCAAGTTTACAGACACTGCTCAAAAAATCAGTACCTTCTTACGGTGAAGAGAAAAGCAGTT  
 ACTAACACAACCCCTCCAGTCTATTCTACCAAAATCAGAAATATAATTGGCAGCCAGAAAAGTGGAGTCTTG  
 GCCATGCCATGTCTAAACCTGAAGATGTTTTCAAAAGTTCAGAAATAATGAAATCAGGTAGTGGAGGAGA  
 ACGAGGCGGGGGTCCGATTCTCCAACAAAAGAGGAGTCTTGGAAAACCTCCAGGGCCCGATGTTTTTT  
 ACCAATGAGCCTCTTGAAGTCTGGATGAAGCAAGTCTGAAAATGAAGGGTTAATGCATCTGGACAGT  
 CACAGTGTATCTGGGTGACAAAGGATTAGTGAGCTCTGCTTCTGCTACTGTCTCTACGCAGGACATCGA  
 AGCTCAAGGCAGGAGTCTCTGCTTCAATATCCACCAACTCTAAAATACCATATTTCTTTTGTCTG  
 ATATTTCTTGCAACTGTCTACTACTATGACTTAATGATAGGCTTGGCGTTCTACCTTTTTTCATTATACT  
 GGTGTACTGGGAAGGGGGAGGCAAGAGAGTCTGTTAAGAAAAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG216554 representing NM\_080464  
 Red=Cloning site Green=Tags(s)

MEPAEEPQGISKDNFLEVPNLSDSVCEDEEVKATFKPGFSPQPSRRGSGSSEDMYLDTPTSASRRVSFAD  
 SLGFSLSVSKFDCWELPSVSTDFDLSGDVFHTDEYVLSPLFDLPSSKEKLMQQLVQKAVLESAEHLPG  
 SSMKGIIRVLNIFSEKLVYVRMSLDDWQTHYDILAEYVPNSCDGETDQFSFKISLVPPYQKEGGKVEFCI  
 RYETSAGTFWSNNGTNYILVCQKKRKEPEPVKPLEEAPSRQIKGCLKVKSRKKEEPLLAPEENKFETLK  
 FTESYIPTIICSHEDKDDLGNHPNVDDINKKHDEHNGKELDLMINQRLITSQDEKNTFATDVTNFKA  
 EGSEKKQAYHEINTDLFMGPLSPSLAESLKRDFYHSRSSSPGNEYGHPHSEEIISDMGEKGPLGDTSD  
 SDELMQLELCSKEDLDDNANPANGSGRVCSSFDQRMACGLKNNAGIKKTIQDYKYSHGDSTKLEESNA  
 SSRDDYAKVDNKKEKQTCGLGVNENPSKNFQSVFQTQEGHMGYPKISTEGDKANNQDLTSLLSKDITANTW  
 AVTVDPSTNAKRSWREVGSGSNLEPGTSDLSSPRNFSPLTDDHLFQADRENSDSSNPENQNMNTRHRK  
 KWNVLETQSETSETESDIAKHTKEQAEYKDMWEKTDNSRNLKATPTEHLFTCRETECYGLSSLADHGITE  
 KAQAVTAYIIKTTLESTPESASARGKAIIAKLPQETAGNDRPIEVKETAFDPHEGRKDDSHYSLCHGDTA  
 GVIHDNDFERESHLDICNLRVDEMKEKTTSTCFPKTYDKEKHGIGSVTSIDEPSQVITGNQKATSKLD  
 LHLGVLPTDRAIFQANADLELLQELSRRTDFNAVPSAFNSDTASASRDSSQVYRHCSSKSVPSYGEKAV  
 TNTTLQSIPTKSEYNWHPSEVLGHAMSKPEDVFKSSEIMKSGSGGERGGPILQQKEGSLSENSQGPMMFF  
 TNEPLENDEASSENEGLMHSGQSQCYLGDKGLVSSASATVSTQELEAQGRESLLSISTNSKIPYFLLFL  
 IFLATVYYYDLMIGLAFYLFSLYWLWEGGRQRESVKKK

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI



<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_080464.2</a></u> , <u><a href="#">NP_536712.2</a></u>
<b>RefSeq Size:</b>	7120 bp
<b>RefSeq ORF:</b>	3270 bp
<b>Locus ID:</b>	140491
<b>UniProt ID:</b>	<u><a href="#">Q99MR9</a></u>
<b>Cytogenetics:</b>	6 A1
<b>Gene Summary:</b>	Seems to act as a glycogen-targeting subunit for PP1. PP1 is essential for cell division, and participates in the regulation of glycogen metabolism, muscle contractility and protein synthesis. Plays an important role in glycogen synthesis but is not essential for insulin activation of glycogen synthase.[UniProtKB/Swiss-Prot Function]