

Product datasheet for **RG220738**

PPP4R2 (NM_174907) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PPP4R2 (NM_174907) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PPP4R2
Synonyms: PP4R2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG220738 representing NM_174907
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACGTCGAGAGGCTCCAGGAGGCGCTGAAAGATTTTGAGAAGAGGGGGAAAAAGGAAGTTTGCCTG
 TCCTGGATCAGTTTCTTTGTCATGTAGCCAAGACTGGAGAAACAATGATTCAGTGGTCCCAATTTAAAGG
 CTATTTTATTTCAAACGGAGAAAGTATGGATGATTTTCAGAACTTCAGCTCCTGAGCCAAGAGGTCT
 CCCAACCTAATGTCGAATATATCCCTTTGATGAAATGAAGGAAAGAATACTGAAAATTGTCAGTGGAT
 TTAATGGTATCCCTTTACTATTCAGCGACTATGTGAATTGTTAACAGATCCAAGGAGAACTATACAGG
 AACAGACAAATTTCTCAGAGGAGTAGAAAAGAATGTGATGGTGTAGCTGTGTTATCCTTCTTCAGAG
 AAAACAATTCGAATAGTTTAAATCGAATGAATGGTGTATGTTTCTGGAAATTCACCAAGCTATACTG
 AGAGGTCTAATAAAATGGGCTGGGACACCCAGGCCACTTAATCGACCAAGGTTTCTTTGTCAGCCCC
 CATGACAACAAATGGGTTGCCTGAGAGCACAGACAGCAAGAGGCAAAATTTGCAGCAAAATGAGGAGAAA
 AATCACAGTGACTCTTCGACCTGGAATCAGAAGTTTCTCAGTGAGCCCTTTGAAAAATAACATCCAG
 ATGAAGATGCTGTGGAAGCTGAGGGCATGAGGTAAGAAAGACTCAGGTTTGACAAAGAAGGTGAAGTCAG
 AGAAACAGCCAGTCAAACGACTCCAGCGAAATTTCTTCAGTTATGGTAGGAGAAACAGAAGCATCATCT
 TCATCTCAGGATAAAGACAAAGATAGCCGTTGTACCCGGCAGACTGTACAGAAGAGGATGAAGAAGAGG
 ATGAAGAGGAAGAAGAAGAGTCTTTTATGACATCAAGAGAAATGATCCCAGAAAAGAAAAATCAAGAAAA
 AGAATCTGATGATGCCTTAACTGTGAATGAAGAGACTTCTGAGGAAAATAATCAAATGGAGGAATCTGAT
 GTGTCTCAAGCTGAGAAAGATTTGCTACATTCTGAAGGTAGTGAACGAAAGGCCCTGTAAGTAGTAGTT
 CTTCTGACTGCCGTGAAACAGAAGAATTAGTAGGATCCAATTCAGTAAAACGGAGAGATTCTTTTCAGA
 ATCATCCATGGAATGATGACGAAGCCACAGAAGTCACCGATGAACCAATGGAACAAGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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MDVERLQEALKDFEKRGKKEVCPVLDQFLCHVAKTGETMIQWSQFKGYFIFKLEKVMDDFRTSAPEPRGP
 PNPVVEYIPFDEMKERILKIVTGFNGIPFTIQRCELLDPRRNYTGTKFLRGVEKNMVMVSCVYPSSE
 KNNSNSLNRMNGVMFPGNSPSYTERSNINGPGTPRPLNRPKVSLAPMTTNGLPEDSDSKEANLQONEEK
 NHSDSSTSESEVSSVSPKKNKHPDEDAVEAGHEVKKRLRFDKKEGEVRETASQTTSSSEISSVMVGETEASS
 SSQDKDKDSRCTRQHCTEDEEEDEEEESFMTSREMIPEKKNQEKESDDALTVNEETSEENNQMEESD
 VSQAEKDLLHSEGENEGPVSSSSSDCRETEELVGSNSSKTGEILSESSMENDDEATEVTDPEMEQD

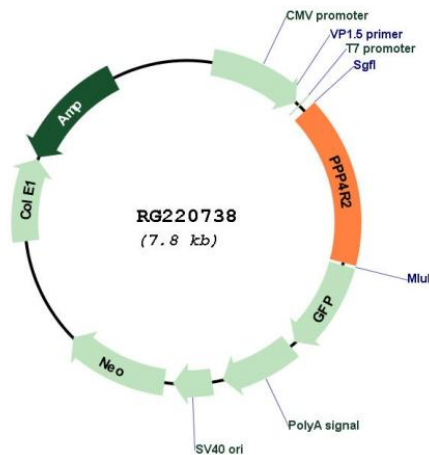
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_174907

ORF Size:	1251 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_174907.4
RefSeq Size:	1497 bp
RefSeq ORF:	1254 bp
Locus ID:	151987
UniProt ID:	Q9NY27
Cytogenetics:	3p13
Protein Families:	Phosphatase
Gene Summary:	The protein encoded by this gene is a regulatory subunit of the serine/threonine-protein phosphatase 4 complex. In addition to being required for efficient DNA double strand break repair, this complex plays a role in organization of microtubules at centrosomes and processing of spliceosomal snRNPs. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2015]