

Product datasheet for SC328612

OriGene Technologies, Inc.

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Myosin Phosphatase 2 (PPP1R12B) (NM_001167858) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Myosin Phosphatase 2 (PPP1R12B) (NM_001167858) Human Untagged Clone

Tag: Tag Free
Symbol: PPP1R12B

Synonyms: MYPT2; PP1bp55

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

Fully Sequenced ORF: >SC328612 representing NM_001167858.

Blue=Insert sequence Red=Cloning site Green=Tag(s)

GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGGCGGAACTGGAGCACCTAGGAGGGAAGCGGGCAGAGTCGGCGCGAATGCGGCGGGCAGAGCAGCTT CGGCGCTGGCGGGGCTCGCTGACAGAGCAGGAGCCTGCGGAGCGACGAGGCGCGGGGGCGCAGCCGCTG ACCAGGCGCGGGAGCCCCAGGGTCCGCTTCGAGGACGGTGCTGTCTTTCTGGCCGCCTGCTCTAGCGGG GACACCGACGAGGTGAGAAAGCTTCTGGCAAGAGGTGCTGATATCAACACGGTCAACGTGGACGGCTTG ACAGCCCTGCACCAGGCATGTATTGATGAAAATTTGGACATGGTGAAGTTTCTGGTGGAGAACAGAGCC AATGTAAACCAGCAAGACAACGAGGGCTGGACACCCCTTCATGCAGCAGCTTCCTGTGGCTATCTCAAC ATAGCAGAGTATTTCATTAATCACGGAGCCAGTGTAGGTATTGTCAATAGTGAAGGTGAAGTTCCCTCT GACCTTGCAGAAGAGCCAGCCATGAAGGATCTTCTTCTGGAGCAAGTAAAGAAGCAAGGAGTTGATCTA GAGCAGTCAAGAAAAGAAGAAGAGCAGCAGATGTTGCAGGATGCCCGCCAGTGGCTCAACAGTGGGAAA ATAGAGGATGTGAGGCAGGCTCGCTCAGGGGCTACAGCCCTTCATGTGGCTGCCAAGGGCTACTCT GAAGTCCTCAGACTTTTAATTCAGGCTGGCTATGAACTCAATGTTCAGGATTATGATGGCTGGACTCCC CTCCATGCTGCACACTGGGGAGTGAAGGAGGCTTGCTCCATCCTGGCAGAAGCACTTTGTGACATG GATATTCGAAATAAACTGGGCCAGACACCATTTGATGTGGCTGATGAGGGTCTCGTGGAGCATTTGGAG TTGCTCCAGAAGAAGCAGAATGTGCTTCGAAGTGAAAAGGAGACACGGAATAAACTCATTGAGTCAGAT CTGAACAGCAAGATTCAGAGTGGGTTCTTTAAGAACAAAGAGAAGATGCTCTATGAGGAGGAGACACCT AAGTCCCAAGAAATGGAGGAAGAAAATAAAGAATCTAGTAGCTCCAGCTCAGAGGAGGAGGAAGGTGAA

GATGAAGCTTCTGAGTCAGAAACTGAGAAGGAGGCAGTTCTCTTCTGGCCTTTTTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT

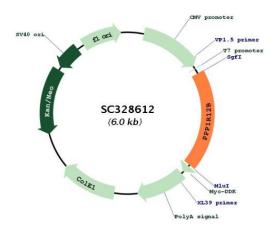
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: Sgfl-Mlul





Plasmid Map:



ACCN: NM_001167858

Insert Size: 1161 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a

point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative

RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning

into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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.

RefSeq: <u>NM 001167858.1</u>

RefSeq Size: 1751 bp
RefSeq ORF: 1161 bp
Locus ID: 4660
UniProt ID: 060237



Myosin Phosphatase 2 (PPP1R12B) (NM_001167858) Human Untagged Clone - SC328612

Cytogenetics: 1q32.1

Protein Families: Druggable Genome

Protein Pathways: Vascular smooth muscle contraction

MW: 43.3 kDa

Gene Summary: Myosin phosphatase is a protein complex comprised of three subunits: a catalytic subunit

(PP1c-delta, protein phosphatase 1, catalytic subunit delta), a large regulatory subunit (MYPT, myosin phosphatase target) and small regulatory subunit (sm-M20). Two isoforms of MYPT have been isolated--MYPT1 and MYPT2, the first of which is widely expressed, and the second of which may be specific to heart, skeletal muscle, and brain. Each of the MYPT isoforms functions to bind PP1c-delta and increase phosphatase activity. This locus encodes both MYTP2 and M20. Alternatively spliced transcript variants encoding different isoforms have been identified. Related pseudogenes have been defined on the Y chromosome. [provided by

RefSeq, Oct 2011]

Transcript Variant: This variant (6) differs in the 3' coding region and 3' UTR, compared to variant 8. The resulting isoform (f) has a distinct C-terminus and is shorter than isoform h.