OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC116240

PPP2R5A (NM_006243) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R5A (NM_006243) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPP2R5A
Synonyms:	B56A; B56alpha; PR61A
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF within SC116240 sequence for NM_006243 edited (data generated by NextGen Sequencing)

ATGTCGTCGTCGTCGCCGCCGGCGGGGGCTGCCAGCGCCGCCATCTCGGCCTCGGAGAAA
GTGGACGGCTTCACCCGGAAATCGGTCCGCAAGGCGCAGAGGCAGAAGCGCTCCCAGGGC
TCGTCGCAGTTTCGCAGCCAGGGCAGCCAGGCAGAGCTGCACCCGCTGCCCCAGCTCAAA
GATGCCACTTCAAATGAACAACAAGAGCTTTTCTGTCAGAAGTTGCAGCAGTGTTGTATA
CTGTTTGATTTCATGGACTCTGTTTCAGACTTGAAGAGCAAAGAAATTAAAAGAGCAACA
CTGAATGAACTGGTTGAGTATGTTTCAACTAATCGTGGTGTAATTGTTGAATCAGCGTAT
TCTGATATAGTAAAAATGATCAGTGCTAACATCTTCCGTACACTTCCTCCAAGTGATAAT
CCAGATTTTGATCCAGAAGAGGATGAACCCACGCTTGAGGCCTCTTGGCCTCACATACAG
TTGGTATATGAATTCTTCTTGAGATTTTTGGAGAGCCCTGATTTCCAGCCTAGCATTGCA
AAACGATACATTGATCAGAAATTCGTACAACAGCTCCTGGAGCTTTTTGATAGTGAAGAT
CCCAGAGAACGTGACTTCCTGAAGACTGTTCTGCACCGAATTTATGGGAAATTTCTTGGA
TTAAGAGCATTCATCAGAAAACAAATTAACAACATTTTCCTCAGGTTTATATATGAAACA
GAACATTTCAATGGTGTTGCTGAACTTCTTGAAATATTAGGAAGTATTATCAATGGCTTT
GCATTGCCACTGAAAGCAGAACATAAACAATTTCTAATGAAGGTTCTTATTCCTATGCAT
ACTGCAAAAGGATTAGCTTTGTTTCATGCTCAGCTAGCATATTGTGTTGTACAGTTCCTG
GAGAAAGATACAACACTAACAGAGCCAGTGATCAGAGGACTGCTGAAATTTTGGCCAAAA
ACCTGCAGTCAGAAAGAGGTGATGTTTTTAGGAGAAATTGAAGAAATCTTAGATGTCATT
GAACCAACACAGTTCAAAAAAATTGAAGAGCCACTTTTCAAGCAGATATCCAAGTGTGTA
TCCAGTTCTCATTTTCAGGTTGCAGAAAGGGCATTGTACTTCTGGAATAACGAATATATT
CTTAGTTTGATTGAGGAGAACATTGATAAAATTCTGCCAATTATGTTTGCCAGTTTGTAC
AAAATTTCCAAAGAACACTGGAATCCGACCATTGTAGCACTGGTATACAATGTGCTGAAA
ACCCTAATGGAAATGAATGGCAAGCTTTTCGATGACCTTACTAGCTCATACAAAGCTGAA
AGACAGAGAGAGAAAAAGAAGGAATTGGAACGTGAAGAATTATGGAAAAAATTAGAGGAG
CTAAAGCTAAAGAAAGCTCTAGAAAAACAGAATAGTGCTTACAACATGCACAGTATTCTC
AGCAATACAAGTGCCGAATAA

Clone variation with respect to NM_006243.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006243 unedited

NTGTTCAAATATTTGTATACGACTCACTATTAGGGCGGCCGCGAATTCGCACGAGGTCTC
AAGTTGTAGCGGTCGCTCGCCTGGGGTTCTCCGTGGGCGGCCGACGGGCGCGTGGGGGAG
GGGGTTCGGGCCGCCCAGCGCGGCAAGGAGCGAGTGTGTGCACGCAGAGGGCCGGGGCTA
CGGGGCAGCGCCCCGGGCGATGAGGGGCCGGCGTTGACCGGGAAGAGCGGGCACCGCGGC
AGTGGCTCCGAGGGGACCCGCGATGGCAGCGCCCTGAGAGGAGGCTCCAGGCAGGGCGGG
CTGCGCTGGCAGCGGCCGCTGAGGTGCTGGCCGGCCGGCTGGCTGGCGACGGGGGCAGAA
GCGACGAGAGGCGCGCTCGGCACCCGCACCCCCGTGCCCCCGCCTCAGTTGTCTAAACTT
CGGGCTCTCTTCCACCCGCTCTGCGCGCCCAGAGTCAACAACTTCTTCACCCCCCTCCGC
CCCCGCCCTTCCCTCCGTCAGCCCCGGGAGCTCGCCGCGCGCCGGGGACCAGGAACCTCC
AGCGCTGAGATGTGGCCGTGAGGCGTTGGCGGGCGGCGAGGAGAAGCTCGGCGGCGTCCC
GGGGCCGGAGGGCCGTGGGGCCGGGGCGCAGGGGCGCGAGCACCCCGCGCCTCTCCCCCG
CCTCCTCCTGCCGTCTCCGCCGCTGCCCGTGCCTTGCAAGCAGCAGCCGGAGCTGCCAAG
CGTCAGGGCCGCGGGAGAATGTCGTCGTCGTCGCCGCCGGCGGGNGGCTGCCAGCGCCGC
CATCTCGGCCTCGGAGAAAGTGGACGGCTTCACCCGGAAAATCGTCCGCAAGGCGCANAG
GCAGAAGCGCTCCCAGGCTCGGTCGCAGTTTCGCACCAGGGCAGCCAGGCAGAGCTGCAC
CGCTGCCCAGCTCNAAGAGCCACTT

3' Read Nucleotide Sequence:

```
>OriGene 3' read for NM_006243 unedited
GGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTCAAATACAAACATAGACTTTA
TTAAATGCTGCTCAATCCCCCAATGAAGATCTTTCATTACAAAACAGTTTTCCACACAAC
TGCAAGTTAAAAGATTGGAATGGTACTCTGATAACAAAAGATGTGAGAAATACTTGACCA
AGTAAAAACATACAAGACCTCTATATCGTCAACCTTTTCAAAGCTCTACAGAGGAAGCCT
ACTGCAGTTCCTTTAAATAAAGCCAGGCAGTGACAACTAGTGCTCTGTATCACCACACTG
GGGGACTCAAAGCCTCCATCCCTGGGTCAGGAGGGACTAGGTGAAGGACAGGTTGTGAGG
ACTGGAAAGGCCCTGCCTTCAGCCTTTGAGAGGAAGAGGAGGAATGAATTGAGAGGCAAG
CTGGGTAATTCACCTGAGCTGCCTCTACCCATCTGTTACCACTCTGGAGAATTGCAGAGG
AAGGGGGATATTCATGAGGAACAATCTGAAGAATTTTGGTTTACTTTCCCAGCTTTTATT
TATATTTTGTGCTTTAAAAAGCCTGGAGATTTAAGGTTTTGCCTAAATTCCAGAGTACAG
TAATGTATTTATTGAGGGAGGGGTTAGGGCAGGTAATTCCCCCCATCATATTTCTGGGTG
AGACAAAGAGAAGGGTAAGGATGATACCTTAGTTTTATTTTAGGAAGTATTTTTTCCTAG
GATGTAACTAAGGCTCGCCGCAGTGTGAAAACCCATTATAAAGGGGAAATTCTCAGAGCC
GACTACCGTATCTTTGTCCCACACCATCAAGGAAAACTTAAGCCATAATTCTTACCCCTC
CATAATATCCTCCTCATTTCATAATGAAAAACCCTTCATTTCTGTGAAATTTCGAAGGAC
ACCTAAACTTACGCATAAACAGGGTACATCTCTATTGCCTGAACAGCCACGGCCCGCTTA
ACCTATATCCGCCTN
```

Restriction Sites: NotI-NotI

ACCN: NM_006243

Insert Size: 3190 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).

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: NM_006243.2, NP_006234.1

RefSeq Size: 3145 bp

RefSeq ORF: 1461 bp

Locus ID: 5525

UniProt ID: Q15172

Cytogenetics: 1q32.3

Domains: B56

Protein Families:	Druggable Genome, Phosphatase
Protein Pathways:	Oocyte meiosis, Wnt signaling pathway
Gene Summary:	The product of this gene belongs to the phosphatase 2A regulatory subunit B family. Protein phosphatase 2A is one of the four major Ser/Thr phosphatases, and it is implicated in the negative control of cell growth and division. It consists of a common heteromeric core enzyme, which is composed of a catalytic subunit and a constant regulatory subunit, that associates with a variety of regulatory subunits. The B regulatory subunit might modulate substrate selectivity and catalytic activity. This gene encodes an alpha isoform of the regulatory subunit B56 subfamily. Alternative transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Dec 2010] Transcript Variant: This variant (1) encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.