

Product datasheet for **SC113475**

PPP2R2D (NM_001003656) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R2D (NM_001003656) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPP2R2D
Synonyms:	MDS026
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC113475 sequence for NM_001003656 edited (data generated by NextGen Sequencing)

```
ATGGAGGAGCTGACCGAAGTCATCACTGCAGCCGAGTTCCACCCGACCAAGTCAACGTTG
TTCGTCTACAGCAGTAGCAAAGGGACCATCCGCCTGTGTGACATGCGCTCCTCGGCCCTG
TGCACAGACTCAAGTTTTTTGAAGAGCCTGAAGATCCCAGCAGTAGGTCCTTCTTC
TCAGAAATAATTCATCCATATCCGATGTAAAATTCAGTCATAGTGGCGGTACATGATG
ACCAGAGACTACCTGTCGGTGAAGGTGTGGACCTCAACATGGAGAGCAGGCCGGTGGAG
ACCCACCAGGTCCACGAGTACCTGCGCAGCAAGCTCTGCTCTCTATGAGAACGACTGC
ATCTTTGACAAGTTTGAGTGTGCTGGAACGGTTCGGATAGCGCCATCATGACCGGTCC
TATAACAACCTTTCAGGATGTTTGATAGAGACACGCGGAGGGATGTGACCCTGGAGGCC
TCGAGAGAGAGCAGCAAACCGCGGCCAGCCTCAAACCCGGAAGGTGTGTACGGGGGGT
AAGCGGAGGAAAGACGAGATCAGTGTGGACAGTCTGGACTTCAACAAGAAGATCCTGCAC
ACAGCCTGGCACCCCGTGACAATGTCATTGCCGTGGCTGCCACCAATAACTTGTACATA
TTCCAGGACAAAATCAACTAG
```

Clone variation with respect to NM_001003656.1



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5' Read Nucleotide Sequence:

```
>OriGene 5' read for NM_001003656 unedited
ATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGTGAAAAGGGAAAAAATCC
TCCCGCGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGG
GCTCGGCTGCAGCGGGCGGGAGGCCGTCTCCCTGGTCTGCCCGGGTCCCCGCCGTC
CCGCCGGTGCATGGCAGGAGCCGGAGGCGGGCGGGTCCCGCGGGCGGGCAACGACTT
CAGTGGTGCTTCTCGCAGGTCAAGGGGGCCATCGACGAGGACGTGGCCGAAGAATAA
CGCCCTCATTCTAGGGGAGAATAAATGTTTACAGCACCTTTCAAAGTCATGAACGG
GTTTGACTATTTGAAAAGTCTAGAAATTGAGGAAAAAATTAATAAAATTAGGTGGTT
ACAACAGAATGCTGCTCATTTTTCTACTGTCTACAAATGATAAACTATAAAATTATG
AATAAGTGAACGGGATAAAAGAGCAGAAGTTATAACCTGAAAGACGAAGATGGAAG
TCGAGACCCATTTAGGATCACGGCGCTACGGATGACCTGAGAATTAATTTATGGCA
AAAATACAGATAGAAGCTTTAACATCGTGGACATCAAGCCTGCTAACATGGAGGAG
CCGAAGTCATCACTGCAGCCGAGTCCACCCGACCCAGTGCACGTTCTCGTCTACAG
GTAGCAAAGGGACCATCCGCCTGTGTGACATGCGCTCCTCGGCGTGTGCGACAGAC
CCAAGTTTTTGAAGAGGCTGAGAATCCAGCAGTAGGTCCCTTTTCAAAAATAATCT
TTCATATTCGATGTAATAATAGTCTATGGCCGTTTCATGATGACCACAACTACCTGT
GTGAAGGTGTGGGACCTCACAGGAAAGCAGGCCGGGGACCCCGAGCCA
```

3' Read Nucleotide Sequence:

```
>OriGene 3' read for NM_001003656 unedited
GACCGCGGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTGGATTTAAAAACA
TTATAGTGTGTTGTTTTATTGAGCGCTCACACCCGAAGGGTGGCGGGATGCTGTGG
GTGAGTGGGGCCCTGAGCCTGCTCGGGCCACATCCACACATCCACAGAGTCCACTGG
ACTCGGAGGAAGCCGAGAGGACACGGACGGTGGCCACACCACGCTGCAGTGAAGGCCC
AGTGTGATGGCAGAGAAAGAGGGAAAGTTGGAGAAAGAGCGGTATCTGACAATACTTT
CTCTTGGATGTTAATTTTTTGGTCTATAAATTGAAAGGAAGGCTCGGACTGAAATAA
ACATTTATTCTGAGTAATGACCTTTTGGGAGCAGTGTCCGTAACCTCTGTTTCGAGAG
TCTCCACGTGAGCAGCAGCGCTGTCTCGCGCTCGCCGAGGGCGGAACCACCGGGCT
CCAGCGGAGGGCGGCTTCTCCTGTGTCTGTGAAGGGAAGTAGCAGGTGCGTCACTGTT
TAATGGAGCGGACAATGATGCCTTTTCTCTGACAGAAAATGTCCGGCTTAACATGCAA
GACAAGACTTGGTCCCTCACGTTCCGCTCTCTAGTTGATTNTGCTGGAATATGTACAAG
TTATTGGTGGCAGCCACGCAATGACATTGTCCACGGGGTGCCANGCTGTGTGCAAGATC
TTCTTGTGAAGTCCAGACTGTNCACACTGATCTCGTCTTTCCTCCGCTACCCCGGTAC
ACACCTCCGGGNTTGAGGCTGGCGCGGGTTTGTGCTCTCTTTCGAGCCTCCANGGT
CACATCCCTCCGGGTGTNCTCATCAAACATNCTGNANAAATNTGTATAGGACCCGTCAT
GATGGCGTATTCGAACCGTTCAGCACACTCAACTGTCAAGATGCAGTCGTCT
```

Restriction Sites:

NotI-NotI

ACCN:

NM_001003656

Insert Size:

1960 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_001003656.1](#), [NP_001003656.1](#)

RefSeq Size: 2091 bp

RefSeq ORF: 681 bp

Locus ID: 55844

Cytogenetics: 10q26.3

Protein Families: Druggable Genome, Phosphatase

Protein Pathways: Tight junction

Gene Summary: B regulatory subunit of protein phosphatase 2A (PP2A) that plays a key role in cell cycle by controlling mitosis entry and exit. The activity of PP2A complexes containing PPP2R2D (PR55-delta) fluctuate during the cell cycle: the activity is high in interphase and low in mitosis. During mitosis, activity of PP2A is inhibited via interaction with phosphorylated ENSA and ARPP19 inhibitors. Within the PP2A complexes, the B regulatory subunits modulate substrate selectivity and catalytic activity, and also may direct the localization of the catalytic enzyme to a particular subcellular compartment (By similarity).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) has an additional exon in the 5' region and lacks an internal segment in the middle region, as compared to variant 1. It uses a downstream AUG start codon and encodes isoform 2 which has a shorter N-terminus, as compared to isoform 1.