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Product datasheet for SC128054

PPP2R2D (NM_018461) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R2D (NM_018461) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPP2R2D
Synonyms:	B55D; B55delta; MDS026
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_018461, the custom clone sequence may differ by one or more nucleotides

ATGGCAGGAGCCGGAGGCGGCGGCTGCCCCGCGGGCGGCAACGACTTCCAGTGGTGCTTCTCGCAGGTCA
AGGGGGCCATCGACGAGGACGTGGCCGAAGCGGACATCATTTCCACCGTTGAGTTTAATTACTCTGGAGA
TCTTCTTGCAACAGGAGACAAGGGCGGCAGAGTTGTTATTTTTCAGCGTGAACAAGAGAATAAAAGCCGC
CCTCATTCTAGGGGAGAATATAATGTTTACAGCACCTTTCAAAGTCATGAACCGGAGTTTGACTATTTGA
AAAGTCTAGAAATTGAGGAAAAAATTAATAAAATTAGGTGGTTACCACAACAGAATGCTGCTCATTTTCT
ACTGTCTACAAATGATAAAACTATAAAATTATGGAAAATAAGTGAACGGGATAAAAGAGCAGAAGGTTAT
AACCTGAAAGACGAAGATGGAAGACTTCGAGACCCATTTAGGATCACGGCGCTACGGGTCCCAATATTGA
AGCCCATGGATCTTATGGTAGAAGCGAGTCCACGGCGAATTTTTGCAAATGCTCACACATATCATATAAA
TTCCATTTCAGTAAATAGTGATCATGAAACATATCTTTCTGCAGATGACCTGAGAATTAATTTATGGCAC
TTAGAAATCACAGATAGAAGCTTTAACATCGTGGACATCAAGCCTGCTAACATGGAGGAGCTGACCGAAG
TCATCACTGCAGCCGAGTTCCACCCGCACCAGTGCAACGTGTTCGTCTACAGCAGTAGCAAAGGGACCAT
CCGCCTGTGTGACATGCGCTCCTCGGCCCTGTGCGACAGACACTCCAAGTTTTTTGAAGAGCCTGAAGAT
CCCAGCAGTAGGTCCTTCTTCTCAGAAATAATTTCATCCATATCCGATGTAAAATTCAGTCATAGTGGGC
GGTACATGATGACCAGAGACTACCTGTCGGTGAAGGTGTGGGACCTCAACATGGAGAGCAGGCCGGTGGA
GACCCACCAGGTCCACGAGTACCTGCGCAGCAAGCTCTGCTCTCTCTATGAGAACGACTGCATCTTTGAC
AAGTTTGAGTGTTGCTGGAACGGTTCGGATAGCGCCATCATGACCGGGTCCTATAACAACTTCTTCAGGA
TGTTTGATAGAGACACGCGGAGGGATGTGACCCTGGAGGCCTCGAGAGAGAGCAGCAAACCGCGCGCCAG
CCTCAAACCCCGGAAGGTGTGTACGGGGGGTAAGCGGAGGAAAGACGAGATCAGTGTGGACAGTCTGGAC
TTCAACAAGAAGATCCTGCACACAGCCTGGCACCCCGTGGACAATGTCATTGCCGTGGCTGCCACCAATA
ACTTGTACATATTCCAGGACAAAATCAACTAG

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018461 unedited
ACGACTCACTATAGGGCGGCCGCGAATTCGCACGAGGCCCCGGCGGCGGCGGCGGCGGCG
GCGCCGGCGGTGGTGGCGGCCCCGGGGCTGAGCGCTCGGCTGCAGCGGCGCGGAGGCCGT
CTCCCTGGTCTGCCGCGGTCCCCGCCCGTCCCGCCGCCGGCTGCCATGGCAGGAGCCGGA
GGCGGCGGCTGCCCCGCGGGCGGCAACGACTTCCAGTGGTGCTTCTCGCAGGTCAAGGGG
GCCATCGACGAGGACGTGGCCGAAGCGGACATCATTTCCACCGTTGAGTTTAATTACTCT
GGAGATCTTCTTGCAACAGGAGACAAGGGCGGCAGAGTTGTTATTTTTCAGCGTGAACAA
GAGAATAAAAGCCGCCCTCATTCTAGGGGAGAATATAATGTTTACAGCACCTTTCAAAGT
CATGAACCGGAGTTTGACTATTTGAAAAGTCTAGAAATTGAGGAAAAAATTAATAAAATT
AGGTGGTTACCACAACAGAATGCTGCTCATTTTCTACTGTCTACAAATGATAAAACTATA
AAATTATGGAAAATAAGTGAACGGGATAAAAGAGCAGAAGGTTATAACCTGAAAGACGAA
GATGGAAGACTTCGAGACCCATTTAGGATCACGGCGCTACGGGTCCCAATATTGAAGCCC
ATGGATCTTATGGTAGAAGCGAGTCCACGGCGAATTTTTGCAAATGCTCACACATATCAT
ATAAATTCCATTTCAGTAAATAGTGATCATGAAACATATCTTTCTGCAAATGACCTGAGA
AATTAATTATGGCACTTAGAAATCACAGATAGAAGCTTTAACATCGGGGACATCAAGCCT
GCTAACATGGAGGAGCTGACCGAAGTCATCACTGCAGCCGGAGTTCACCCGGACCAGTGC
CACGTGTTCGTCTACAGCAAAGCAAAGT

3' Read Nucleotide Sequence:

>Forward primer walk for NM_018461 unedited
NAAACAGCGAGCACGCGCGCCCGCCTCAACTCGGTAGTGTGTACGGGGGGTAAGCGGNAG
GAAANACGAGCATCAGTGTGGACAGTCTGGACTTCAACAAAAAGATCCTGCACACAGCCT
GGCACCCCGTGGACAATGTCATTGCCGTGGCTGCCACCAATAACTTGTACATATTCCAGG
ACAAAATCAACTAGAGACGCGAACACACAGGAGAAAGCCGCCTCCGCTGGAGGCCCGGTG
TGGTTCCGCCTCGGCGAGGCGCGAGACAGGCGCTGCTGCTCACGTGGAGACGCTCTCGAA
GCAGAGTTGACGGACACTGCTCCCAAAAGCGTGGGGGTATGTGTGCNNCATTTCTGTNTC
NNNNCTGCTNNTCCGTGNNTGGTCTTCCTTCGCACCCCCCCCACCACGGGAGAAGACCCC
CAGAAACGACAACCCCCCAGCAGACAAACCCACCACCCACTAATTACCCCCCCCCCACAA
CCGCACCGAACCAATTACACCGGTGCCAAACACCCCCCCCGCACAATACCTTAACAGCAC
GCCACGCTAAACAGAAGCGAACTCCCACACATCAACACACCCCAAACCCACCCCCCCCAC
TCGCCACGAATATGTCACCTTTTCCACCCCGACCAAAGAGAGCATATAACCCACCGGAGC
GGCCTATCACCCCCCCGCCACATGCCGAACCGACACCCAACCGCCCAGTTTTTCAACACG
AGTTCTCCCTTGTCGCACACCTTATATATTGAAATCCAAACACGAAGCAGCATGACCGCG
GACACGTTAGCCGANCCACAACTAAAACACGCCTATGCACCCTAGTATCAAAACCCACCG
AAATACGATGGATAACACGGGTTCCCACAAACAATAGACCAACGCGGTAATAAAAAAT

Restriction Sites: NotI-NotI

ACCN: NM_018461

Insert Size: 4700 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_018461.2, NP_060931.2
RefSeq Size:	2105 bp
RefSeq ORF:	1362 bp
Locus ID:	55844
UniProt ID:	Q66LE6
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 (1) encodes the longer isoform (a).