

Product datasheet for **RG237219**

PPP2R2D (NM_001291310) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R2D (NM_001291310) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPP2R2D
Synonyms:	B55D; B55delta; MDS026
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237219 representing NM_001291310. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGATCTTATGGTAGAAGCGAGTCCACGGCGAATTTTGGCAAATGCTCACACATATCATATAAATTCC
ATTTTCAGTAAATAGTGATCATGAAACATATCTTTCTGCAGATGACCTGAGAATTAATTTATGGCACTTA
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CGCCTGTGTGACATGCGCTCCTCGGCCCTGTGCGACAGACACTCCAAGTTTTTTGAAGAGCCTGAAGAT
CCCAGCAGTAGGTCCTTCTCTCAGAAATAATTTTCATCCATATCCGATGTAAAATTCAGTCATAGTGGG
CGGTACATGATGACCAGAGACTACCTGTGCGGTGAAGGTGTGGGACCTCAACATGGAGAGCAGGCCGGTG
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GCCAGCCTCAAACCCCGAAGGTGTGTACGGGGGGTAAGCGGAGGAAAGACGAGATCAGTGTGGACAGT
CTGGACTTCAACAAGAAGATCCTGCACACAGCCTGGCACCCCGTGGAACAATGTCATTGCCGTGGCTGCC
ACCAATAACTTGTACATATTCAGGACAAAATCAAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237219
 Blue=ORF Red=Cloning site Green=Tag(s)

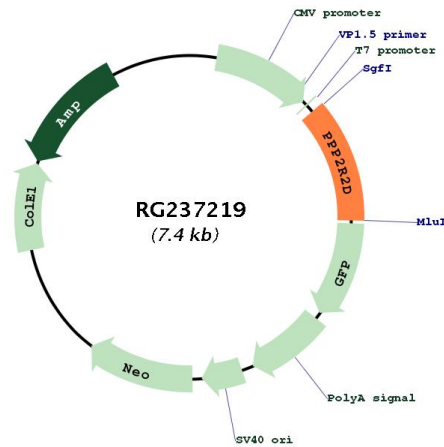
MDLMVEASPRRIFANAHTYHINSISVNSDHETYLSADDLRINLWHL EITDRSFNIVDIKPANMEELTEV
 ITAAEFHPHQCNV FVYSSSKGTIRLCDMRSSALCDRHSKFEEPEDPSSRSFFSEI ISSISDVKFSHSG
 RYMMTRDYL SVKVDLNMESRPVETHQVHEYLRSKLC SLYENDCIFDKFECCWNGSDSAIMTGSYNNFF
 RMFDRDTRRDV TLEASRESSKPRASLKPRKVCTGGKRRKDEI SVDSLDFNKKILHTAWHPVDNVI AVAA
 TNNLYIFQDKIN
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYP SGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTE LGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001291310

ORF Size:	864 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).
RefSeq:	NM_001291310.2
RefSeq Size:	6791 bp
RefSeq ORF:	867 bp
Locus ID:	55844
UniProt ID:	Q66LE6
Cytogenetics:	10q26.3
Protein Families:	Druggable Genome, Phosphatase
Protein Pathways:	Tight junction
MW:	33.8 kDa
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]