

Product datasheet for **RC221975L4V**

Myosin Phosphatase 2 (PPP1R12B) (NM_002481) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Myosin Phosphatase 2 (PPP1R12B) (NM_002481) Human Tagged ORF Clone Lentiviral Particle
Symbol:	PPP1R12B
Synonyms:	MYPT2; PP1bp55
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_002481
ORF Size:	2946 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC221975).
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.
RefSeq:	NM_002481.3
RefSeq Size:	11108 bp
RefSeq ORF:	2949 bp
Locus ID:	4660
UniProt ID:	O60237
Cytogenetics:	1q32.1
Domains:	ANK
Protein Families:	Druggable Genome



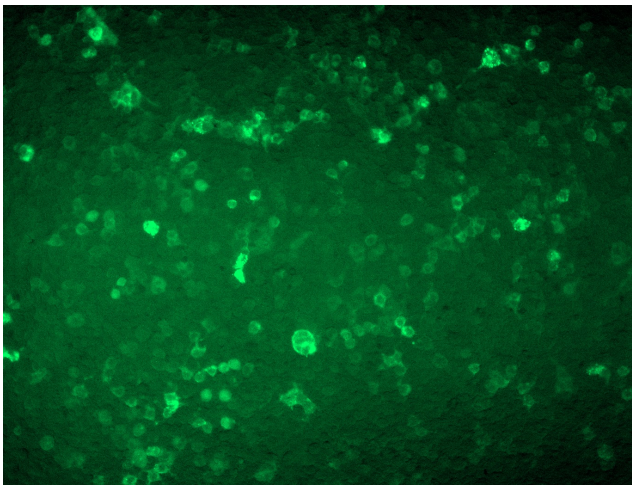
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Protein Pathways: Vascular smooth muscle contraction

MW: 110.4 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]

Product images:



[RC221975L4] was used to prepare Lentiviral particles using [TR30037] packaging kit. HEK293T cells were transduced with RC221975L4V particle to overexpress human PPP1R12B-mGFP fusion protein.