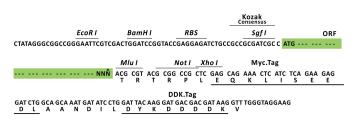


Product datasheet for RC205131L3

PPP2R2B (NM_181675) Human Tagged Lenti ORF Clone

Product data:

| Product Type: | Expression Plasmids |
|------------------------------|--|
| Product Name: | PPP2R2B (NM_181675) Human Tagged Lenti ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | PPP2R2B |
| Synonyms: | B55BETA; PP2AB55BETA; PP2ABBETA; PP2APR55B; PP2APR55BETA; PR2AB55BETA; PR2ABBETA; PR2APR55BETA; PR52B; PR55-BETA; PR55BETA; SCA12 |
| Mammalian Cell Selection: | Puromycin |
| Vector: | pLenti-C-Myc-DDK-P2A-Puro (PS100092) |
| E. coli Selection: | Chloramphenicol (34 ug/mL) |
| ORF Nucleotide Sequence: | The ORF insert of this clone is exactly the same as(RC205131). |
| Restriction Sites: | Sgfl-Mlul |
| Cloning Scheme: | Cloning sites used for ORF Shuttling: |



--- GCG ATC GCC ATG --- // --- NNN ACG CGT ---

* The last codon before the Stop codon of the ORF.

ACCN: ORF Size: NM_181675 1329 bp

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



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| ORIGENE PPP2R2B (NM_181675) Human Tagged Lenti ORF Clone – RC205131L3 | |
|---|--|
| 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. <u>More info</u> |
| 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). |
| Reconstitution Method: | Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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: | <u>NM 181675.1</u> |
| RefSeq Size: | 2098 bp |
| RefSeq ORF: | 1332 bp |
| Locus ID: | 5521 |
| UniProt ID: | <u>Q00005</u> |
| Cytogenetics: | 5q32 |
| Protein Families: | Druggable Genome, Phosphatase |
| Protein Pathways: | Tight junction |
| MW: | 51.7 kDa |
| Gene Summary: | The product of this gene belongs to the phosphatase 2 regulatory subunit B family. Protein phosphatase 2 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 a beta isoform of the regulatory subunit B55 subfamily. Defects in this gene cause autosomal dominant spinocerebellar ataxia 12 (SCA12), a disease caused by degeneration of the cerebellum, sometimes involving the brainstem and spinal cord, and in resulting in poor coordination of speech and body movements. Multiple alternatively spliced variants, which encode different isoforms, have been identified for this gene. The 5' UTR of some of these variants includes a CAG trinucleotide repeat sequence (7-28 copies) that can be expanded to 55-78 copies in cases of SCA12. [provided by RefSeq, Jul 2016] |

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