

Product datasheet for RC222690L3

OriGene Technologies, Inc.

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PPP2R2B (NM_181678) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: PPP2R2B (NM_181678) 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)

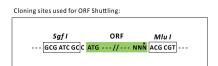
ORF Nucleotide

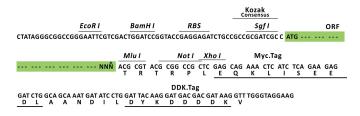
The ORF insert of this clone is exactly the same as(RC222690).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_181678 **ORF Size:** 1296 bp





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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).

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: <u>NM 181678.1</u>, <u>NP 858064.1</u>

 RefSeq Size:
 2020 bp

 RefSeq ORF:
 1299 bp

 Locus ID:
 5521

 UniProt ID:
 000005

Cytogenetics: 5q32

Protein Families: Druggable Genome, Phosphatase

Protein Pathways: Tight junction

MW: 50.2 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]