

Product datasheet for RC211455L3

OriGene Technologies, Inc.

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P protein (OCA2) (NM 000275) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: P protein (OCA2) (NM_000275) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: P protein

Synonyms: BEY; BEY1; BEY2; BOCA; D15S12; EYCL; EYCL2; EYCL3; HCL3; P; PED; SHEP1

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

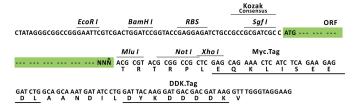
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC211455).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_000275

ORF Size: 2514 bp





P protein (OCA2) (NM_000275) Human Tagged Lenti ORF Clone - RC211455L3

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 000275.1</u>

RefSeq Size:3136 bpRefSeq ORF:2517 bpLocus ID:4948

 UniProt ID:
 Q04671

 Cytogenetics:
 15q12-q13.1

Protein Families: Druggable Genome, Transmembrane

MW: 92.7 kDa

Gene Summary: This gene encodes the human homolog of the mouse p (pink-eyed dilution) gene. The

encoded protein is believed to be an integral membrane protein involved in small molecule transport, specifically tyrosine, which is a precursor to melanin synthesis. It is involved in mammalian pigmentation, where it may control skin color variation and act as a determinant of brown or blue eye color. Mutations in this gene result in type 2 oculocutaneous albinism. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]