

Product datasheet for SC314798

P protein (OCA2) (NM_000275) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: P protein (OCA2) (NM_000275) Human Untagged Clone
Tag: Tag Free
Symbol: P protein
Synonyms: BEY; BEY1; BEY2; BOCA; D15S12; EYCL; EYCL2; EYCL3; HCL3; P; PED; SHEP1
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_000275 edited
 GCGGACCTTAACTCACTCCTGGAGAAAGATCTGCAAGTGCAGAGAGAAGACTGGCAG
 TGGAGCATGCATCTGGAGGGCAGAGACGGCAGGCGGTACCCCGGCGGCCGGCGGTGGAG
 CTCTGCAGACGTCCGTGCCAGCGGACTCGCTGAACTTGTGGCCGCAAGCGCAGGCTT
 CCTCGGGGAGCCGGTGGAGCTGACCCCTCGCACTCCTGCCCCAGGGGGGCTGCCGGGCG
 AGCTCTTGGGCTCCTGCAGGCCAGGAGTTTGTTCATTCTCACAAAAGGGAGGTCTCAC
 TCTTCTTGGCCAGATGTCAGCTCCAGGTCTAAAGATTCTGCTTTACAGAAAACACT
 CCTTTGCTGAGGAATTCCTTACAGGAGAAAGGGTACGGTGCATACCTGTTTACCATCCA
 GAGTTCATCACTGCTGAAGAGTCTTGGGAAGACAGCTCTGCTGACTGGGAGCGAAGATAC
 CTGCTAAGCAGGGAGGTGTCTGGTCTGTCTGCATCTGCCTCCTCCGAGAAGGGAGACCTT
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 GATCAAGGAAAGCTCTGGCAGCTGTTGGCCTTATCACCGCTGGAGAACTACTCCGTGAAC
 CTTAGCAGCCACGTGGACTCCACGCTGCTGCAGGTGGACCTGGCAGGGGCCCTAGTGGCC
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 GCTTTGGGCTCCAGGTGGCGGGCCACAGCAGGTCACTACAACCTGGACGGTGTATTTA
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 ACGGTGTCCATCAGCATCCGGCCCTCCCTGCAGCAGACCCAGGCTGTCCCTCTTTTGTG
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 CGGGGACGGGTGTGGCCATGATCATCATGCTCTGTCTCATCGCGGCCGTCTCTCTGCC
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 GTGCTCAACCTTGATCCAAGACAAGTCTGATTGCAGAAGTGATCTTACAAAACATTGGA
 GGAGCTGCCACTGCCATCGGGGACCTCCAATGTCATTATTGTTTCCAACCAAGAGCTG



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AAGGAACCCAGTGAGATTGTTGAACTGAAGCACGAGATTCACGTCTGGCGCCTGACTGCT
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TAAATTCGATTTTATCCATTTATTTTTCTCTGCAGTTTTAAAGTTATTAATTAAG
TCCAGAAATTTG
    
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- Restriction Sites:** Please inquire
- ACCN:** NM_000275
- Insert Size:** 3200 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** The ORF of this clone has been fully sequenced and found to be a perfect match to NM_000275.1.
- 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: [NM_000275.1](#), [NP_000266.1](#)

RefSeq Size: 3136 bp

RefSeq ORF: 2517 bp

Locus ID: 4948

UniProt ID: [Q04671](#)

Cytogenetics: 15q12-q13.1

Protein Families: Druggable Genome, Transmembrane

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]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).