

## Product datasheet for **SC337514**

### **P protein (OCA2) (NM\_001300984) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	P protein (OCA2) (NM_001300984) Human Untagged Clone
Tag:	Tag Free
Symbol:	OCA2
Synonyms:	BEY; BEY1; BEY2; BOCA; D15S12; EYCL; EYCL2; EYCL3; HCL3; P; PED; SHEP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001300984, the custom clone sequence may differ by one or more nucleotides

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ATGCATCTGGAGGGCAGAGACGGCAGGCGGTACCCGGCGCGCCGGCGGTGGAGCTCTGCAGACGTCCG
TGCCAGCGGACTCGCTGAACTTGTGGCCGCAAGCGCAGGCTTCTCGGGAGCCGGTGGAGCTGACCC
CTCGCACTCCTGCCCCAGGGGGCTGCCGGCAGAGCTTTGGGCTCCTGCAGGCCAGGAGTTTGCCTTCA
TTCTCACA AAAAGGGAGGTCTCACTCTTCTTGGCCAGATGTCCAGCTCCAGGTCTAAAGATCCCTGCT
TTACAGAAAACACTCCTTTGCTGAGGAATTCCTTACAGGAGAAAAGGGTCACGGTGCATACCTGTTTACCA
TCCAGAGTTTCACTGCTGAAGAGTCTTGGGAAGACAGCTCTGCTGACTGGGAGCGAAGATACCTGCTA
AGCAGGGAGGTGTCTGGTCTGTCTGCATCTGCCTCCTCCGAGAAGGGAGACCTTCTGGACAGCCCGACA
TCCGACTCCGCTTTCCAAGCTGAGGCGCTGTGTGCAGTGGTGAAGTCAATGGGCTGTTTGCCTTTGT
GGTGTGTGTTCTATTTTGTTCAGCCTATATCCGGATCAAGGAAAGCTCTGGCAGCTGTTGGCCTTATCA
CCGCTGGAGA ACTACTCCGTGAACCTTAGCAGCCACGTGGACTCCACGCTGCTGCAGGTGGACCTGGCAG
GGGCCCTAGTGGCCAGTGGGCCGAGTCGTCTGGGAGGGAAGAGCACATCGTGGTGGAGCTGACCCAGGC
TGACGCTTTGGGCTCCAGGTGGCGGGCCACAGCAGGTCACTACAAC TGACGGTGTATTTAAATCCG
AGGAGAAGCGAGCACTCAGTGATGAGCAGGACCTTTGAGGTA CTGACCAGAGAGACGGTGTCCATCAGCA
TCCGGGCTCCCTGCAGCAGACCCAGGCTGTCCCTCTTTTGTGGCTCATCAGTACCTCCGCGGAAGTGT
AGAAACCCAGGTGACCATCGCGACGGCCATCCTCGCGGGCGTCTACGCGCTGATCATATTTGAGAGACCC
AGCCTGACCCATGTGGTGGAGTGGATTGATTTTGGAGACGCTGGCCCTGCTGTTTGGCATGATGATCTTAG
TAGCCATATTTT CAGAAACGGGATTTTTCGATTATTGTGCTGTA AAGGCATACCGGCTCTCCCGGGGACG
GGTGTGGGCCATGATCATATGCTCTGTCTCATCGCGCCGCTCTCTGCTTCTTGGACAACGTCAACC
ACCATGCTCCTCTCACGCTGTGACCATAAGGTTGTGTGAGGTGCTCAACCTTGATCCAAGACAAGTCC
TGATTGCAGAAGTGATCTT CACAAACATTGGAGGAGCTGCCACTGCCATCGGGGACCCTCCAAATGTCAT
TATTGTTTCCAACCAAGAGCTGAGGAAGATGGGCTGGACTTTGCCGATTCACTGCACACATGTTCAAT
GGGATTTGCCTTGTCTCCTGGTCTGCTTTCGGCTCCTCAGACTCCTTACTGGAACAGAAAAGCTTTATA
ACAAGGAACCCAGTGAGATTGTTGAACTGAAGCACGAGATTACGCTCTGGCGCTGACTGCTCAGCGCAT
CAGCCCGGCCAGCCGCGAGGAGACAGCTGTGCGCCGCTGCTGCTGGGGAAGGTGCTGGCACTGGAGCAC
CTGCTCGCCCGGAGGCTGCACACCTTCCACAGACAGATCTCACAGGAGGACAAAAATTGGGAGCCAATA
TCCAAGA ACTCCAAAAAAGCATAGGATATCTGACGGGATTCTGCTCGCCAAATGCCTGACAGTGTGGG
ATTTGTTATCTT CATGTTTTTCCCTCAATTGCTTGTCCCTGGCATT CATCTTGATCTTGGATGGATTGCT
ATTCTGGGTGCCATCTGGTTGCTAATTTAGTGATATTCATGATTTTGAGATAATTCTACACAGAGTGG
AATGGGCAACCTTCTGTTTTTGCAGCGCTCTTTGTTCTGATGGAGGCATTGGCACATCTCCACTTAAT
AGAATATGTTGGAGAACAACTGCTTTGCTAATAAAGATGGTCCCAGAGGAGCAGCGCTCATAGCCGCC
ATTGCTCTGGTGGTGTGGGTCTCAGCCCTGGCGTCGTCCCTGATTGACAACATCCCGTTCCTGCTACCA
TGATTCCTGCTCCTGAACCTGAGCCACGACCCTGAGGTTGGCTGCCCGCACCCGCTCATGTATGC
CCTGGCCTTCGGTGTCTGCTGGGAGGTAACGGGACACTGATTGGCGCGTCGGCAACGTCGTGTGTGCA
GGGATTGCAGAACAGCATGGATATGGGTTCTCCTTCATGGAATTTTTCAGGCTGGGCTTCCCAATGATGG
TTGTGCTCTGCACTGTTGGGATGTGTTATCTCCTTGTGGCTCATGTGGTGGTGGGATGGAATTA
    
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**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001300984

**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).

**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\\_001300984.1](#), [NP\\_001287913.1](#)

**RefSeq Size:** 3082 bp

**RefSeq ORF:** 2445 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 (2) lacks an alternate in-frame exon in the central coding region, compared to variant 1, resulting in an isoform (2) that is shorter than isoform 1.