

## Product datasheet for **RG239620**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	P protein (OCA2) (NM_001300984) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	P protein
Synonyms:	BEY; BEY1; BEY2; BOCA; D15S12; EYCL; EYCL2; EYCL3; HCL3; P; PED; SHEP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG239620 representing NM\_001300984.  
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGCATCTGGAGGGCAGAGACGGCAGGCGGTACCCGGCGCCGGCGGTGGAGCTCCTGCAGACGTCC
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CCCTCGCACTCCTGCCCAAGGGGGCTGCCGGCAGAGCTCTTGGCTCCTGCAGGCCAGGAGTTTGTCT
TCATTCCTCACAAAAGGGAGGTCTCACTCTTCTTGGCCAGATGTCCAGCTCCAGGTCTAAAGATTCC
TGCTTTACAGAAAACACTCCTTTGCTGAGGAATTCCTTACAGGAGAAAGGTCACGGTGCATACCTGTT
TACCATCCAGAGTTCATCACTGCTGAAGAGTCTTGGGAAGACAGCTCTGCTGACTGGGAGCGAAGATAC
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CCGCACATCCGACTCCGTCTTCCAAGCTGAGGCGCTGTGTGCAGTGGCTGAAAGTCATGGGCCTGTTT
GCCTTTGTGGTGTGTGTTCTATTTTGTTCAGCCTATATCCGGATCAAGGAAAGCTCTGGCAGCTGTTG
GCCTTATCACCGCTGGAGAACTACTCCGTGAACCTTAGCAGCCAGTGGACTCCACGCTGCTGCAGGTG
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CTGACCCAGGCTGACGCTTTGGGCTCCAGGTGGCGGCCACAGCAGGTCACTCACAACTGGACGGTG
TATTTAAATCCGAGGAGAAGCGAGCACTCAGTGATGAGCAGGACCTTTGAGGTAAGTACAGAGAGACG
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ATGGAATTTTTCAGGCTGGGCTTCCAATGATGGTTGTGTCCTGCACTGTTGGGATGTGTTATCTCCTT
GTGGCTCATGTGGTGGTGGGATGGAAT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
  
```

**Protein Sequence:** >Peptide sequence encoded by RG239620  
 Blue=ORF Red=Cloning site Green=Tag(s)

MHLEGRDGRRYPGAPAVELLQTSVPSGLAELVAGKRRLPRGAGGADPSHSCPRGAAGQSSWAPAGQEFA  
 SFLTKGRSHSSLPQMSSSRKSDSCFTENTPLLRNSLQEKGSRCIPVYHPEFITAEESWEDSSADWERRY  
 LLSREVSGLSASASSEKGDLLDSPHIRLRLSKLRRCVQWLKVMGLFAFVVLCSILFSLYPDQGLWQLL  
 ALSPLENYSVNLSSHVDSTLLQVDLAGALVASGSPSRPGREEHIVVELTQADALGSRWRRPQQVTHNWT  
 YLNPRESSEHSVMSRTFEVLTRETYSISIRASLQQTQAVPLLMHQYLRGSVETQVTIATAILAGVYALI  
 IFERPSLTHVVEWIDFETLALLFGMMILVAIFSETGFFDYCAVKAYRLSRGRVWAMIIMLCLIAAVLSA  
 FLDNVTMLLFTPVTIRLCEVLNLDPRQVLAIEVIFTNIGGAATAIGDPPNVIIIVSNQELRKMGLDFAG  
 FTAHMFIGICLVLLVCFPLRLLYWNRKLYNKEPSEIVELKHEIHWRLTAQRISPASREETAVRRLLL  
 GKVLALEHLLARRLHTFHRQISQEDKNWETNIQELQKKHRISDGILLAKCLTVLGFVIFMFFLNSFVPG  
 IHLDLGWIAILGAIWLLILADIHDFEIIHRVEWATLLFFAALFVLMALHLHLIEYVGEQTALLIKM  
 VPPEEQLIAAIVLVVWVSALASSLIDNIPFTATMIPVLLNLSHDPEVGLPAPPLMYALAFGACLGNGT  
 LIGASANVVCAGIAEQHGYGFSFMEFFRLGFPMMVVSVCTVGMCYLLVAHVVVGW  
**TRTRPLEME**SDSEGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE  
 SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSMHFKSAIHPSILQNGGPMFA  
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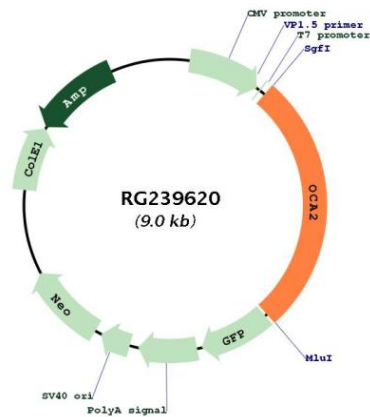
**Restriction Sites:** Sgfl-Mlul



**RefSeq Size:** 3082 bp  
**RefSeq ORF:** 2445 bp  
**Locus ID:** 4948  
**UniProt ID:** [Q04671](#)  
**Cytogenetics:** 15q12-q13.1  
**Protein Families:** Druggable Genome, Transmembrane  
**MW:** 91 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]

### Product images:



Circular map for RG239620