

Product datasheet for **RG211455**

P protein (OCA2) (NM_000275) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P protein (OCA2) (NM_000275) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG211455 representing NM_000275
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCATCTGGAGGCGAGAGACGGCAGGCGGTACCCGGCGCGCCGGTGGAGCTCCTGCAGACGTCCG
 TGCCAGCGGACTCGCTGAACTTGTGGCCGCAAGCGCAGGCTTCTCGGGAGCCGGTGGAGCTGACCC
 CTCGCACTCCTGCCCCAGGGGGCTGCCGGCAGAGCTCTGGGCTCCTGCAGGCCAGGAGTTTGCTTCA
 TTCCTCACAAAAGGGAGGTCTCACTCTTCTTGGCCAGATGTCCAGCTCCAGGTCTAAAGATTCCTGCT
 TTACAGAAAACACTCCTTTGCTGAGGAATTCCTTACAGGAGAAAGGGTCACGGTGCATACCTGTTTACCA
 TCCAGAGTTCATCACTGCTGAAGAGTCTTGGGAAGACAGCTCTGCTGACTGGGAGCGAAGATACCTGCTA
 AGCAGGGAGGTGTCTGGTCTGTCTGCATCTGCCTCCTCCGAGAAGGGAGACCTTCTGGACAGCCCGACA
 TCCGACTCCGTCTTCCAAGCTGAGGCGCTGTGTGCAGTGGCTGAAAGTCATGGGCTGTTTGCCTTTGT
 GGTGCTGTGTTCTATTTTGTTCAGCCTATATCCGGATCAAGGAAAGCTCTGGCAGCTGTTGGCCTTATCA
 CCGCTGGAGAACTACTCCGTGAACCTTAGCAGCCACGTGGACTCCACGCTGCTGCAGGTGGACTGGCAG
 GGGCCCTAGTGGCCAGTGGGCCGAGTCTGCTGGGAGGGAAGAGCACATCGTGGTGGAGCTGACCCAGGA
 TGACGCTTTGGGCTCCAGGTGGCGGCCACAGCAGGTCACTCACAACCTGGACGGTGTATTTAAATCCG
 AGGAGAAGCGAGCACTCAGTGATGAGCAGGACCTTTGAGGTACTGACCAGAGAGACGGTGTCCATCAGCA
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 AGAAACCCAGGTGACCATCGCGACGGCCATCCTCGCGGGCGTCTACGCGCTGATCATATTTGAGATCGTG
 CACAGAACTCTGGCGGCCATGCTGGGTTCCCTTGCAGCACTGGCAGCACTGGCTGTGATTGGCGATAGAC
 CCAGCCTGACCCATGTGGTGGAGTGGATTGATTTTGGAGCGCTGGCCCTGCTGTTTGGCATGATCTT
 AGTAGCCATATTTTTCAGAAACGGGATTTTTCGATTATTGTGCTGTAAGGCATACCGGCTCTCCCGGGGA
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 CCACCATGCTCCTCTTACGCTGTGACCATAAGGTTGTGTGAGGTGCTCAACCTTGATCCAAGACAAGT
 CCTGATTGCAGAAGTGTCTTACAAAACATTGGAGGAGCTGCCACTGCCATCGGGGACCTCCAAATGTC
 ATTATTGTTTCCAACCAAGAGCTGAGGAAGATGGGCTGGACTTTGCCGATTCACTGCACACATGTTCA
 TTGGGATTTGCCTTGTCTCCTGGTCTGCTTCCGCTCCTCAGACTCCTTACTGGAACAGAAAGCTTTA
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 ATCAGCCCGGCCAGCCGCGAGGAGACAGCTGTGCGCCGCTGCTGCTGGGAAGGTGCTGGCACTGGAGC
 ACCTGCTCGCCCGGAGGCTGCACACCTTCCACAGACAGATCTCACAGGAGGACAAAAATTGGGAGACCAA
 TATCCAAGAACTCAAAAAAAGCATAGGATATCTGACGGGATTCTGCTCGCCAAATGCCTGACAGTGTTG
 GGATTTGTTATCTTCATGTTTTTCTCAATTGCTTTTGTCCCTGGCATTATCTTGATCTTGGATGGATTG
 CTATTCTGGGTGCCATCTGGTTGCTAATTTTAGCTGATTTTATGATTTTGGATAAATTCTACACAGAGT
 GGAATGGGCAACCCTTCTGTTTTTGCAGCGCTCTTGTCTGATGGAGGCATTGGCACATCTCCACTTA
 ATAGAATATGTTGGAGAACAACCTGCTTTGCTAATAAAGATGGTCCCAGAGGAGCAGCGCCTCATAGCCG
 CCATTGCTCCTGGTGGTGTGGTCTCAGCCCTGGCGTCTGTCCTGATTGACAACATCCCGTCACTGCTAC
 CATGATCCCGTCTCCTGAACCTGAGCCACGACCCTGAGTTGGCCTGCCCGCACCGCCGCTCATGTAT
 GCCCTGGCCTTCGGTCTTGCCTGGGAGGCAACGGGACACTGATTGGCGCGTCGGCAAAACGTCGTGTGTG
 CAGGGATTGCAGAACAGCATGGATATGGTTCTCCTTTCATGGAATTTTTCAGGCTGGGCTTCCCAATGAT
 GTTGTGTCTGCACTGTTGGGATGTGTTATCTCCTTGTGGCTCATGTGGTGGTGGGATGGAAT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG211455 representing NM_000275
Red=Cloning site Green=Tags(s)

MHLEGRDGRRYPGAPAVELLQTSVPSGLAELVAGKRRLPRGAGGADPSHSCPRGAAGQSSWAPAGQEFAS
FLTKGRSHSSLPMSSSRKDCFTENTPLLRNSLQEKGSRCIPVYHPEFITAEESWEDSSADWERRYLL
SREVSGLSASASSEKGDLLDSPHIRLRSLKLRRCVQWLKVMGLFAFVVLCSILFSLYPDQGLWQLLALS
PLENYSVNLSSHVDSTLLQVDLAGALVAGPSRPGREEHIVVELTQDDALGSRWRRPQQVTHNWTVYLN
RRSEHSVMSRTFEVLTRETVISIRASLQQTQAVPLLMHQYL RGSVETQVTIATAILAGVYALIIIFEIV
HRTLAAMLGSLAALAALAVIGDRPSLTHVVEWIDFETLALLFGMMILVAIFSETGFFDYCAVKAYRLSRG
RVWAMIIMLCLIAAVLSAFLDNVTMMLFTPVTIRLCEVLNLDPRQVLAIEVIFTNIGGAATAIGDPPNV
IIVSNQELRKMGLDFAGFTAHMFIGICLVLLVCFLLRLLYWRKLYNKEPSEIVELKHEIHWRLTAQR
ISPASREETAVRRLLLGKVLALEHLLARRLHTFHRQISQEDKNWETNIQELQKKHRISDGILLAKCLTVL
GFVIFMFFLNSFVPGIHLDLGWIAILGAIWLLILADIHDFEIIILHRVEWATLLFFAALFVLMALHLHL
IEYVGEQTALLIKMVPPEEQLIAAIVLVVWVSALASSLIDNIPFTATMIPVLLNLSDHPEVGLPAPPLMY
ALAFGACLGNGTLIGASANVVCAGIAEQHGYGFSFMEFFRLGFPMMVVSCTVGMCYLLVAHVVVGWN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

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

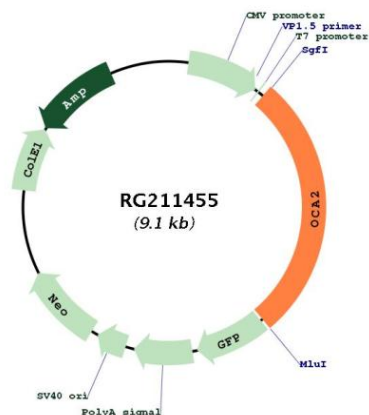
UniProt ID: [Q04671](#)

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]

Product images:



Circular map for RG211455