

Product datasheet for **RG214800**

GPR136 (OPN5) (NM_181744) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR136 (OPN5) (NM_181744) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR136
Synonyms:	GPR136; GRP136; PGR12; TMEM13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214800 representing NM_181744 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTTAAATCACACTGCCCTGCCTCAGGACGAGCGCCTGCCCATACCTTCGAGATGGGGATCCTT
TTGCTTCCAACTTTCTGGGAAGCGGATTTAGTGGCTGGCTTTACCTAACAAATAATTGGGATTCTGTC
CACATTTGGAAATGGATATGTCCTTTACATGTCTTCTAGACGAAAGAAGAAGCTGAGACCCGCTGAAATA
ATGACTATCAATTTAGCAGTCTGTGATCTGGGGATTTAGTTGTAGGCAAGCCGTTACCATCATCTCTT
GCTTTTGTACCCTGGGTGTTGGCTGGATCGGCTGCCGCTGGTATGGATGGGCTGGATTTTCTTTGG
CTGTGGAAGCCTTATACCATGACTGCTGTGAGCCTGGATCGATATTTGAAAATCTGCTATTTATCTTAT
GGGTTTGGCTGAAAAGAAAGCACGCCTACATCTGCCTGGCAGCCATCTGGGCCTATGCTTCCTTCTGGA
CCACCATGCCCTTGGTAGGTCTGGGGGACTACGTACCTGAGCCCTTCGGAACCTCGTGCACCCTGGACTG
GTGGCTGGCCAGGCCTCGGTAGGGGCGCAGGTTTTCATCCTGAACATCCTCTTCTGCTCCTTGGCTC
CCAACGGCTGTGATCGTGTCTCCTACGTAAGATCATTGCCAAGGTTAAGTCTCTTCCAAAGAAGTAG
CTCATTTGACAGTCGGATCCATAGCAGCCATGTGCTGGAATGAAACTGACAAAGGTAGCGATGTTGAT
TTGTGCTGGATTCTGATTGCCTGGATTCTTATGCAGTGGTGTCTGTGTGGTCAGCTTTTGAAGGCCA
GACTCCATCCCATAACAGCTCTGTGGTGCCAAACCCTACTTGCAAATCTGCAGCGATGTACAATCCCA
TCATTTACCAAGTTATTGATTACAAATTTGCCTGTTGCCAAACTGGTGGTTTGAAGCAACCAAGAAGAA
GTCTCTGGAAGGCTTCAGGCTGCACCCGTAACCACAGTCAGGAAGTCTTCTGCTGTGCTGGAAATTCAT
GAAGAGTGGGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG214800 representing NM_181744
Red=Cloning site Green=Tags(s)

MALNHTALPQDERLPHYLRDGDPFASKLSWEADLVAGFYLTIIIGILSTFGNGYVLYMSSRRKKKLRPAEI
 MTINLAVCDLGISVVGKPFITIIISCFCHRWFVFWIGCRWYWGAGFFFGCGSLITMTAVSLDRYLKICYLSY
 GVWLKRKHAYICLAAIWAYASFWTMPLVGLGDYVPEPFGTSDLDWLLAQASVGGQVFIILNILFFCLLL
 PTAVIVFSYVKIIAKVKSSSKEVAHFDSRIHSSHVLEMKLTKVAMLICAGFLIAWIPYAVVSVWSAFGRP
 DSIPIQLSVVPVTLAKSAAMYNP I IYQVIDYKF ACCQTGGLKATKKKSLEGFRLHTVTTVRKSSAVLEIH
 EEW E

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_181744

ORF Size: 1062 bp

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: [NM_181744.3](#)

RefSeq Size: 3473 bp

RefSeq ORF: 1065 bp

Locus ID: 221391

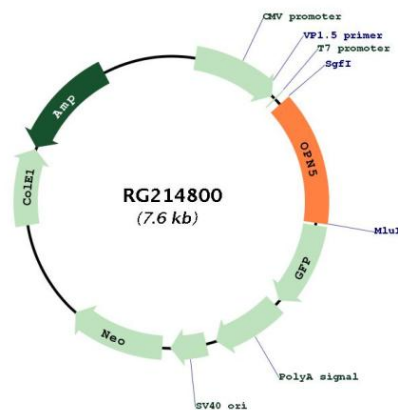
UniProt ID: [Q6U736](#)

Cytogenetics: 6p12.3

Protein Families: Druggable Genome, Transmembrane

Gene Summary: Opsins are members of the guanine nucleotide-binding protein (G protein)-coupled receptor superfamily. This opsin gene is expressed in the eye, brain, testes, and spinal cord. This gene belongs to the seven-exon subfamily of mammalian opsin genes that includes peropsin (RRH) and retinal G protein coupled receptor (RGR). Like these other seven-exon opsin genes, this family member may encode a protein with photoisomerase activity. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2010]

Product images:



Circular map for RG214800