

Product datasheet for **SC302502**

GPR136 (OPN5) (NM_001030051) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR136 (OPN5) (NM_001030051) Human Untagged Clone
Tag:	Tag Free
Symbol:	GPR136
Synonyms:	NEUROPSIN; opsin 5; OTTHUMP00000016565; OTTHUMP00000039910; PGR12; TMEM13; transmembrane protein 13
Mammalian Cell Selection:	Neomycin
Vector:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Restriction Sites:	Please inquire
ACCN:	NM_001030051
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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).



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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_001030051.1, NP_001025222.1

RefSeq Size: 3455 bp

RefSeq ORF: 570 bp

Locus ID: 221391

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]

Transcript Variant: This variant (2) has multiple differences in the presence and absence of exons at its 5' end, compared to variant 1. These differences produce a unique 5' UTR and cause translation initiation at a downstream start codon, compared to variant 1. The encoded protein (isoform 2) is shorter than isoform 1.