

Product datasheet for **RG207204**

GPR6 (NM_005284) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	GPR6
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG207204 representing NM_005284
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACGCGAGCGCCGCTCGCTCAACGACTCCCAGGTGGTGGTAGTGGCGGCCGAAGGAGCGCGCGCGG
CGGCCACAGCAGCAGGGGGCCGGACAGGGCGAATGGGGACCCCTGCTGCGCGGCTCTAGGAGCCGG
CGGCGGAGCTAATGGGTCTCTGGAGCTGTCTCGCAGCTGTGCGGCTGGGCCACCGGACTCCTGCTGCCA
GCGGTGAATCCGTGGGACGTGCTCCTGTGCGTGTGCGGGACAGTGATCGCTGGAGAAAACGCGCTGGTGG
TGGCGCTCATCGCGTCCACTCCGGCGCTGCGCACGCCCATGTTGCTGCTGGTAGGCAGCCTGGCCACCGC
TGACCTGTTGGCGGGCTGTGGCCTCATCTTGCACTTTGTGTTCCAGTACTTGGTGCCCTCGGAGACTGTG
AGTCTGCTCACGGTGCGCTTCTCGTGCGCTCCTTCGCGCCTCTGTCAGCAGCCTGCTGGCCATTACGG
TGGACCGCTACCTGTCCCTGTATAACGCGCTCACCTATTACTCGCGCCGACCTGTTGGGCGTGACCT
CCTGCTTGCCGCCACTTGACCGTGTCCCTAGGCCTGGGGCTGCTGCCCGTGTGGGCTGGAAGTGCCTG
GCAGAGCGCGCCGCTGCAGCGTGGTGGCGCCGCTGGCGCGCAGCCACGTGGCTCTGCTCTCCGCCCT
TCTTCATGGTCTTCGGCATCATGCTGCACCTGTACGTGCGCATCTGCCAGGTGGTCTGGCGCCACGCGCA
CCAGATCGCGCTGCAGCAGCACTGCCTGGCGCCACCCATCTCGCTGCCACCAGAAAGGGTGTGGGTACA
CTGGCTGTGGTGTGGGCACTTCGGCGCCAGCTGGCTGCCCTTCGCCATCTATTGCGTGGTGGGAGCC
ATGAGGACCGCGGCTTACACTTACGCCACCTGCTGCCCGCACCTACAACCTCATGATCAATCCCAT
CATCTATGCCCTTCGCAACCAGGAGATCCAGCGCGCCTGTGGCTCCTGCTGTGGCTGTTCCAGTCC
AAAGTGCCCTTTCGTTCCAGGTCTCCAGCGAGGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG207204 representing NM_005284
Red=Cloning site Green=Tags(s)

MNASASLND SQVVVAAEGAAAAATAAGGPD TGEWGPPAAAAALGAGGGANGSLELSSQLSAGPPGLLLP
AVNPWDVLLCVSGTVIAGENALVVALIASTPALRTPMFVLVGLATADLLAGCGLILHFVFQYLPVSETV
SLLTVGFLVASFAASVSSLLAITVD RYLSLYNALTYYSRRTL LGVHLLAATWTVSLGLLPVLGW NCL
AERAACSVVRPLARSHVALLSAAFFMVFGIMLHLYVRICQVVRHAHQIALQQHCLAPPHLAATRKG VGT
LAVVLGTFGASWLPFAIYCVGSHEDPAVYTYATLLPATYNSMINPIIYAFRNQEIQRALWLLLCGCFQS
KVPFRSRSPSEV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005284

ORF Size: 1086 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_005284.5
RefSeq Size:	1667 bp
RefSeq ORF:	1089 bp
Locus ID:	2830
UniProt ID:	P46095
Cytogenetics:	6q21
Protein Families:	Druggable Genome, GPCR, Transmembrane
Gene Summary:	Orphan receptor with constitutive G(s) signaling activity that activate cyclic AMP. Promotes neurite outgrowth and blocks myelin inhibition in neurons (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:

Circular map for RG207204