

Product datasheet for **RG205539**

GPR62 (NM_080865) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR62 (NM_080865) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR62
Synonyms:	GPCR8; KPG_005
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205539 representing NM_080865 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAACCTCCACAGGGCTGAACGCCTCAGAAGTCGCAGGCTCGTTGGGTTGATCCTGGCAGCTGTCG
TGGAGGTGGGGCACTGCTGGGCAACGGCGCGTCTGGTCGTGGTGCTGCGCACCGGGACTGCGCGA
CGCGCTTACCTGGCGCACCTGTGCGTCTGGACCTGCTGGCGGCCGCCTCCATCATGCCGCTGGGCCTG
CTGGCCGACCCGCGCCGGGCTGGGCCGCTGCGCTGGGCCCGGCCATGCCGCGCCGCTCGTTCC
TCTCCGCCGCTCTGCTGCCGGCCTGCACGCTCGGGGTGGCCGCACTTGGCCTGGCAGCTACCGCCTCAT
CGTGACCCGCTGCGGCCAGGCTCGCGGCCGCCGCTGTGCTCGTCTACCCGCCGTGTGGGCCGGCGG
GGACTGCTGGGCGCGCTCTCCCTGCTCGGCACGCCGCCGCCACCGCCCTGCTCCTGCTCGCTGCTCGG
TCCTGGCTGGGGCCTCGGGCCCTTCCGGCCGCTCTGGGCCCTGCTGGCCTTCCGCTGCCCGCCCTCT
GCTGCTCGGCGCCTACGGCGGCATCTTCGTGGTGGCGCGTTCGCGCTGCCCTGAGGCCCCACGGCCGGC
CGCGGGTCCCAGCTCCACTCGGACTCTCTGGATAGCCGCCTTTCCATCTTGCCGCCGCTCCGGCCTCGCC
TGCCCGGGGGCAAGGCGGCCCTGGCCCCAGCGCTGGCCGTGGGCAATTTGACGCTGCTGGCTGCCTTA
TGGCTGCGCGTGCCTGGCGCCCGCAGCGCGGGCCGGAAGCCGAAGCGGCTGTACCTGGTTCGCTAC
TCGGCCTTCCGGCTCACCCCTTCTGTACGGGCTGCTGCAGCGCCCGTGGCCTTGGCACTGGGCCGCC
TCTCTCGCCGTGCACTGCCTGGACCTGTGCGGGCCTGCACTCCGCAAGCCTGGCACCCGCGGCACTCTT
GCAATGCCTCCAGAGACCCCGAGAGGCCCTGCCGTAGGCCCTTCTGAGGCTCCAGAACAGACCCCGAG
TTGGCAGGAGGGCGGAGCCCGCATACCAGGGCCACCTGAGAGTTCTCTCTCC

ACCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA



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Protein Sequence: >RG205539 representing NM_080865
 Red=Cloning site Green=Tags(s)

MANSTGLNASEVAGSLGLILAAVVEVGALLGNGALLVVVLRTPGLRDALYLAHLCVVDLLAAASIMPLGL
 LAAPPPGLGRVRLGPAPCRAARFLSAALLPACTLGVAALGLARYRLIVHPLRPGSRPPPVLVLTAVWAAA
 GLLGALSLLGTPPAPPAPARCSVLAGGLGPFRLWALLAFALPALLLLGAYGGIFVVARRAALRPPRPA
 RGSRLHSDSLDSRLSILPPLRPRLPGGKAALAPALAVGQFAACWLPYGCACLAPAARAAEAEAAVTWVAY
 SAFAAHPFLYGLLQRPVRLALGRLSRRALPGPVRACTPQAWHPRALLQCLQRPPEGPAVGPSEAPEQTPE
 LAGGRSPAYQGPPESSLS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_080865

ORF Size: 1104 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_080865.4](#)

RefSeq Size: 2206 bp

RefSeq ORF: 1107 bp

Locus ID: 118442

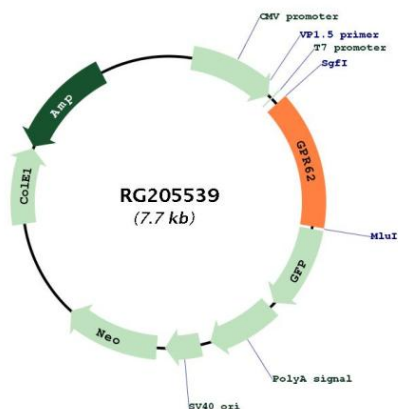
UniProt ID: [Q9BZJ7](#)

Cytogenetics: 3p21.2

Protein Families: Druggable Genome, GPCR, Transmembrane

Gene Summary: Orphan G-protein coupled receptor. Constitutively activates the G(q/11)/inositol phosphate and the G(s)-alpha/cAMP signaling pathways (PubMed:28827538). Has spontaneous activity for beta-arrestin recruitment (PubMed:28827538). Shows a reciprocal modulation of signaling functions with the melatonin receptor MTNR1B most likely through receptor heteromerization (PubMed:28827538).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG205539