

## Product datasheet for **SC123538**

### **GPR62 (BC026357) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GPR62 (BC026357) Human Untagged Clone
Tag:	Tag Free
Symbol:	GPR62
Synonyms:	G-protein coupled receptor; GPCR8; G protein-coupled receptor 62; KPG_005; MGC26943
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

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>OriGene sequence for BC026357 edited
AGTACCATCTCCGACAGGGGCTGAGTTGCTGGAGCTGGGCTGGGGCAGGGGAGAAAGACA
GCAGACTCATCCTTGACCCCTCCATGGGCTGGCCAAGCCCCAAGAGGATGGCAGCCT
GGGCGTCGGAGCCACCTCCTGGGAGCCAATGAGGTGAGGGGCCGGAGGAGCAAGGGACA
AGAGGAGCAGAGGACAGGTGATGAAATCCTGCAGCTTAGGCTCCATTCTGCCATCTAC
ATCCCAGCGCAGGGTGAAGCCTGAGAGCCAAATGGCCAACTCCACAGGGCTGAACGCCT
CAGAAGTCGCAGGCTCGTTGGGTTGATCCTGGCAGCTGTCGTGGAGGTGGGGCACTGC
TGGGCAACGGCGCGCTGCTGGTCTGGTCTGCGCACGCCGGACTGCGCGACGCCGCTCT
ACCTGGCGCACCTGTGCGTCTGGACCTGCTGGCGGCCGCTCCATCATGCCGCTGGGCC
TGCTGGCCGACCCGCCCGGGCTGGGCCGCTGCGCCTGGGCCCGCGCCATGCCGCG
CCGCTCGTTCTCTCCGCCGCTGCTGCCGGCCTGCACGCTCGGGTGGCCGCACTTG
GCCTGGCAGCTACCGCCTCATCGTGCACCCGCTGCGGCCAGGCTCGGGCCGCCGCTG
TGCTCGTCTCACCGCGTGTGGCCCGCGGGACTGCTGGGCGGCTCTCCCTGCTCG
GCCCGCCCGCCGACCGCCCCCTGCTCCTGCTCGTCTCGGTCCTGGCTGGGGGCTCG
GGCCCTTCGGCGCTCTGGGCCCTGCTGGCCTTCGCGCTGCCCGCCCTCCTGCTGCTCG
GGCCTACGGCGCATCTTCGTGGTGGCGCTGCGCTGCCCTGAGGCCCCACGGCCGG
CGCGCGGGTCCCGACTCCGCTCGGACTCTTGATAGCCGCTTCCATCTTGCCGCCAC
TCCGGTCTCGCCTGCCCGGGGCAAGGCGGCCCTGGCCCCAGCGCTGGCCGTGGGCAAT
TTGAGCCTGCTGGTGCCTTATGGTGCCTGCTGGCGCCGCGAGCGGGCCGGCGG
AAGCCGAAGCGGTGTACCTGGTGCCTACTCGGCCTTCGCGGCTCACCCCTTCTGT
ACGGGTGCTGCAGCGCCCCGTGCGCTTGGCACTGGGCCGCTCTCTCGCCGTGCACTGC
CTGGACCTGTGCGGGCTGCACTCCGCAAGCCTGGCACCCGCGGGCACTTTGCAATGCC
TCCAGAGACCCCAAGGGCCCTGCCGTAGGCCCTTCTGAGGCTCCAGAACAGACCCCG
AGTTGGCAGGAGGGCGGAGCCCCGCATACCAGGGGCCACCTGAGAGTTCTCTCCTGAG
CAGGAGAAAGGAGGTGGTTTCCGTGGGGCTCATCCAACCCCTGCACAGGTACAGCAG
GTGCCCTGCTGGATATCTGGGTCTGGAACAGGAGGAGAAAGGTGTCTGCTGCCTGGTGA
GGCCACGGACTTCTGAGAGCCAGGAATCCTGCGGTCTGGGCCCAACTGCATAGCACT
GTGCATAGGCCGACCCTTCTTAGGCCTCAGCTTCCCATCTGCACCCTGCAGCATCTCT
AAGGGCCCTCCAGCATAGTGGTTTGTGAACTCACAGGTGGTCCCAGGCCAAGATGG
GCAGGTGTACAAAGAAGAGGGCCCTAAGGGCTACAACCAAAGTATCCGCCAAGCAGG
GCAGTATCTGGTTACAGCCACAGCAGGAAGAACCACTGGAGAGACTCAGAAGGACTT
CCCTGACATCTGCACCAAGGAGAGTCTGGACAAAGCTACTGAAACTCCTCCACCTGCTT
TAAATGCCCAGAAGACAACCTGGACCAGTTTGGTATTAGAAGTAGGAGGCTGGACGACTT
CACCCCAAGGGTCTGAAGCCCCAGAACCTGGCATGTGGAAGGGGCTGAGGCCTAATTG
AGGTTGGTGGATTACACATGGGGTCTCCAGGACCTCAGTGCACCCATTTTCTGGAG
GTTTTGCTGCCACAACACAGTATTTCAACTTCTGGTCTGAGAATATTTATTCA
AAAACAGGGATTGAAAAAAGTGTAAAAAAAAAAAAAAAAA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for BC026357 unedited NNTTGATTTAATTTGTATACCACTTTCTATAGGCGGCCGCATAACTTCGTATAGCATACA TTATACGAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTGAGAGCGGAGTA CCATCTCCGACGGGGCTGAGTTGCTGGAGCTGGGCTGGGGCAGGNGGAGAAAGACAGCAG ACTCATCTTGCACCCCTCCATGGGCTGGCCAAGCCCCAAGAGGATGGCAGCCTGGGC GTCGGAGCCACCTCCTGGGCAGCCAATGAGGTGAGGGGCCGAGGAGCAAGGGACAAGAG GAGCAGAGGACAGGTGATGAAAATCCTGCAGCTTAGGCTCCATTCTGCCATCTACATCC CAGCGCAGGGTGAAGCCTGAGAGCCCAAATGGCCAACCTCACAGGGCTGAACGCCTCAGA AGTCGCAGGCTCGTTGGGGTTGATCCTGGCAGCTGTCGTGGAGGTGGGGGCACTGCTGGG CAACGGCGCGCTGCTGGTCTGCTGCTGCGCACGCCGGGACTGCGCGACGCGCTCTACCT GGCGCACCTGTGCGTCTGGACCTGCTGGCGGCCGCTCCATCATGCCGCTGGGCTGCT GGCCGCACCGCCCGGGCTGGCCGCGTGCCTGGGCCCCGCCATGCCGCGCCG TCGCTTCTCTCCGCGCTCTGCTGCCGCGCTGCACGCTCGGGGTGGCCGCACTGGCC TGGCACGCTACCGNCTCATCGTGCACCCGCTGCCGCCAGGCTCGCGGCCCGCCGCTGTGC TCGTGCTCAGCCGTGTGGCCCGCGGGACTGCTGGGCGCGCTTCTCTGGTNGGGCGC CGNCCGGACGGCCCTGTNCTGGTTGCTGCTCGGTCCTGGTGGGGCCTCCGGCCCC
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	BC026357
<b>Insert Size:</b>	2139 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC026357.1</a> , <a href="#">AAH26357.1</a>
<b>RefSeq Size:</b>	2139 bp
<b>RefSeq ORF:</b>	1104 bp
<b>Locus ID:</b>	118442
<b>Cytogenetics:</b>	3p21.2
<b>Protein Families:</b>	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]