

## Product datasheet for **RC205463**

### GPR135 (NM\_022571) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GPR135 (NM_022571) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GPR135
Synonyms:	HUMNPIIY20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC205463 representing NM\_022571  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGAGCCGAGCCGCCCCGCCACCAGCGAGCATGGCCTTACTGGGAGCCAGCACTCCGGCGCCC  
 CCTCCGCGGCCGCGCCACCTGGCGGGACTTCTCCGCGGCCACGCGCGCGTGTCTCTCAGCACCGT  
 GGCAGCCGCGGCCTGGGGAACCTGAGCGACGCAAGCGGAGGCGGCACAGCTGCCGCTCCCGGTGGCGGC  
 GGCTTGGCGGGTCCGGGGCAGCGCGGGAGGCGGGGGCGCGGTGAGCGGCCGCTAGGCCCGGAGGCGG  
 CGCCGCTGCTGTCGACGGAGCTGCAGTGGCGGCCAGGCGCTCGTCTCTGCTCATCTTCTGCTGTC  
 TAGCCTTGGCAACTGCGCGGTGATGGGGGTGATTGTGAAGCACCGGCAGCTCCGCACCGTACCAACGCC  
 TTCATCTGTGCTGTCCCTATCGGATCTGCTCACGGCGTGTCTGCCTGCCCGCCGCTTCTGGACC  
 TCTTCACTCCGCCGGGGTTCCGGCGCTGCCCGCCGCGGGGCCCTGGCGGGCTTCTCGCCGCCAG  
 CCGCTTCTCAGCTCGTCTTCCGATCGTGTCCAGCTCAGCGTGGCGTCTATCTCGTTGGACCGTTAC  
 TGCCTATCGTGGCGCCCGCGGGAGAAGATCGGCCCGCCGCGCGCTGCAGCTGCTGGCGGGCGCT  
 GGCTGACGGCCCTGGGCTTCTCCTTGCCTGGGAGCTGCTCGGGGCGCCCGGGAACCTCGCGCGGCCGA  
 GAGTTCCACGGCTGCCTCTACCGACCTCCCGGACCCCGCGCAGCTGGGCGCGGCTTACAGCTGGGG  
 CTGGTGGTGGCCTGCTACCTGCTGCCCTTCTGCTCATGTGCTTCTGCCACTACCACATCTGCAAGACGG  
 TGCGCCTGTGGACGTGCGCGTGCAGCGCGGTGAACACTACGCGCGCGTGTGCGCTTCTCAGCGAGGT  
 GCGCACGGCCACCACCGTCTCATGATCGTCTTGTGCTGCTGCTGGGGCCCTACTGCTTCTG  
 GTGCTGCTGGCCCGCCCGCGGAGGCCAGCCATGCAGGCCCTCGCTCTCAGCGTGGTGGCCGCT  
 GGCTGACCTGGCCAATGGGGCCATCAACCTGTGATCTACGCCATCCGCAATCCCAACATTCGATGCT  
 CCTAGGGCGCAACCGCGAGGAGGCTACCGGACTAGGAATGTGGACGCTTCTGCCCAGCCAGGGCCCG  
 GGTCTGCAAGCCAGAAGCCGAGTGCCTTCAAACCGCTATGCCAACCGCTGGGGCCTGCAACAGGA  
 TGTCTCTTCAAACCGGCCAGCGGAGTGGCAGGGACGTGGCCATGTGGGCCCGCAAAAATCCAGTTGT  
 ACTTTTCTGCCGAGAGGGACCACCAGAGCCGGTACGGCAGTGACCAAACAGCCTAAATCCGAGCTGGG  
 GATACCAGCCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC205463 representing NM\_022571  
 Red=Cloning site Green=Tags(s)

MEEPQPPRPPASMLLGSQHSGAPSAAGPPGGTSSAATAAVLSFSTVATAALGNLSDASGGGTAAPGGG  
 GLGGGAAREAGAAVRRPLGPEAAPLLSHGAAVAAQALVLLIFLLSSLGNCAVMGVIKHRQLRTVTNA  
 FILSLSLSDLLTALLCLPAFLDLFTPPGGSAPAAAAGPWRGFCAASRFFSSCFGIVSTLSVALISLDY  
 CAIVRPPREKIGRRRALQLLAGAWLTALGFSLPWELLGAPRELAQAQSFHGCLYRTPDPAQLGAAFSVG  
 LVVACYLLPFLLMCFCHYHICKTVRLSDVVRVPVNTYARVLRFFSEVRTATTVLIMIVFVICCWGPYCF  
 VLLAAARQAQTMQAPSLLSVVAVLWTWANGAINPVIYAIRNPNISMLLGRNREEGYRTRNVDAFLPSQGP  
 GLQARSRLRNRYANRLGACNRMSSSNPASGVAGDVAMWARKNPVFLFCREGPPEPVTAVTKQPKSEAG  
 DTSL

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8113\\_a02.zip](https://cdn.origene.com/chromatograms/mk8113_a02.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_022571

**ORF Size:** 1482 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\\_022571.6](#)

**RefSeq Size:** 1834 bp

**RefSeq ORF:** 1485 bp

**Locus ID:** 64582

**UniProt ID:** [Q8IZ08](#)

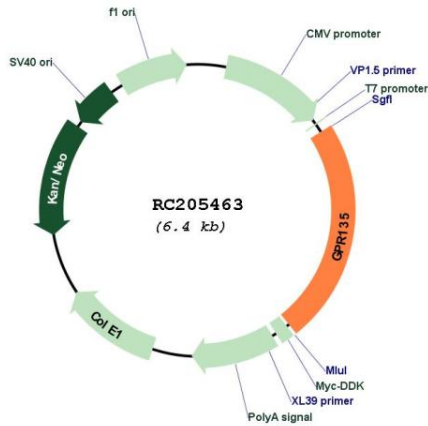
**Cytogenetics:** 14q23.1

**Protein Families:** Druggable Genome, GPCR, Transmembrane

**MW:** 51.6 kDa

**Gene Summary:** Orphan receptor. Has spontaneous activity for beta-arrestin recruitment (PubMed:28827538). Shows a reciprocal regulatory interaction with the melatonin receptor MTNR1B most likely through receptor heteromerization (PubMed:28827538).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RC205463