

## Product datasheet for **RC205181**

### GPR85 (NM\_018970) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GPR85 (NM_018970) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GPR85
Synonyms:	SREB; SREB2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205181 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGAACTATAGCCATGCAGCTGACAACATTTGCAAATCTCTCGCCTAACAGCCTTTCTGAAAC  
TGACTTCCTGGGTTTCATAATAGGAGTCAGCGTGGTGGGCAACCTCCTGATCTCCATTTGCTAGTGAA  
AGATAAGACCTTGCATAGAGCACCTTACTACTCCTGTTGGATCTTTGCTGTTCCAGATATCCTCAGATCT  
GCAATTTGTTCCCATTTGTGTTCAACTCTGTCAAAAATGGCTCTACCTGGACTTATGGGACTCTGACTT  
GCAAAGTGATTGCCTTTCTGGGGTTTTGTCCTGTTCCACACTGCTTTCATGCTCTTCTGCATCAGTGT  
CACCAGATACTTAGCTATCGCCCATCACCGCTTCTATACAAAGAGGCTGACCTTTTGGACGTGTCTGGCT  
GTGATCTGTATGGTGTGGACTCTGTCTGTGGCCATGGCATTTCCTCCCGGTTTTAGACGTGGGCACTTACT  
CATTTCATTAGGGAGGAAGATCAATGCGCCTTCCAACACCGCTCCTTCAGGGCTAATGATTCTTAGGATT  
TATGCTGCTTCTGCTCTCATCTCCTAGCCACACAGCTTGTCTACCTCAAGCTGATATTTTTCTGCCAC  
GATCGAAGAAAAATGAAGCCAGTCCAGTTTGTAGCAGCAGTCAGCCAGAAGTGGACTTTTCATGGTCCTG  
GAGCCAGTGGCCAGGCAGCTGCCAATTGGCTAGCAGGATTTGGAAGGGTCCCACACCACCCACCTTGCT  
GGGCATCAGGCAAAATGCAAACACCACAGGCAGAAGAAGGCTATTGGTCTTAGACGAGTTCAAATGGAG  
AAAAGAATCAGCAGAATGTTCTATATAATGACTTTTCTGTTTCAACCTGTGGGCCCCACCTGGTGG  
CCTGTTATTGGAGATTTTTGCAAGAGGGCTGTAGTACCAGGGGATTCTAACAGCTGCTGTCTGGAT  
GAGTTTTGCCAAGCAGGAATCAATCCTTTTGTCTGCATTTTCTCAAACAGGGAGCTGAGGCGCTGTTTC  
AGCACACCCTTCTTTACTGCAGAAAATCCAGGTTACCAAGGAACTTACTGTGTTATA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >RC205181 protein sequence  
Red=Cloning site Green=Tags(s)

MANYSHAADNILQNL SPLTAFLKLTSLGFIIGVSVVGNLLISILLVKDKTLHRAPYYFLDLCCSDILRS  
 AICFPFVFN SVKNGSTWYGTLTCKVIAFLGVLSCFHAFMLFCISVTRYLAIAHHRFYTKRLTFWTCLA  
 VICMVWTL SVAMAFPPVLDVGTYSFIREEDQCAFQHRFRANDSLGFMLLLALILLATQLVYLKLIFFVH  
 DRRKMKPVQFVAAVSQNWTFHGPASGQAAANWLAGFGRGPTPTLLGIRQANNTGRRRLLVLDEFKME  
 KRISRMYIMTFLFLTLWGPYLVACYWRVVFARGPVVPGGFLTAAVWMSFAQAGINPFVCIFSNRELRRCF  
 STLLLYCRKSRLPREPYCVI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6028\\_f08.zip](https://cdn.origene.com/chromatograms/mk6028_f08.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_018970

**ORF Size:** 1110 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\\_018970.4](#)

**RefSeq Size:** 4948 bp

**RefSeq ORF:** 1113 bp

**Locus ID:** 54329

**UniProt ID:** [P60893](#)

**Cytogenetics:** 7q31.1

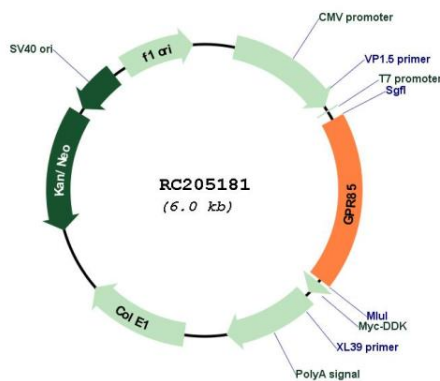
**Domains:** 7tm\_1

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

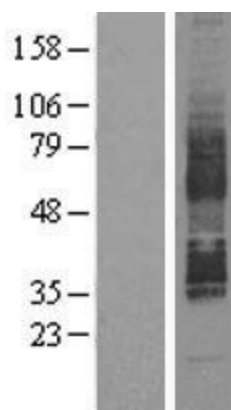
**MW:** 42 kDa

**Gene Summary:** Members of the G protein-coupled receptor (GPCR) family, such as GPR85, have a similar structure characterized by 7 transmembrane domains. Activation of GPCRs by extracellular stimuli, such as neurotransmitters, hormones, or light, induces an intracellular signaling cascade mediated by heterotrimeric GTP-binding proteins, or G proteins (Matsumoto et al., 2000 [PubMed 10833454]).[supplied by OMIM, Aug 2008]

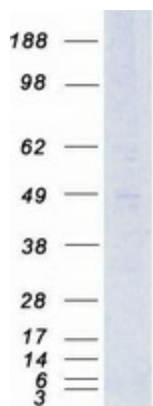
### Product images:



Circular map for RC205181



Western blot validation of overexpression lysate (Cat# [LY431879]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC228851] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GPR85 protein (Cat# [TP305181]). The protein was produced from HEK293T cells transfected with GPR85 cDNA clone (Cat# RC205181) using MegaTran 2.0 (Cat# [TT210002]).