

## Product datasheet for **RG228849**

### GPR85 (NM\_001146265) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GPR85 (NM_001146265) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR85
Synonyms:	SREB; SREB2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG228849 representing NM_001146265 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGAACTATAGCCATGCAGCTGACAACATTTGCAAATCTCTCGCCTAACAGCCTTTCTGAAAC  
TGACTTCCTGGGTTTCATAATAGGAGTCAGCGTGGTGGGCAACCTCCTGATCTCCATTTGCTAGTGAA  
AGATAAGACCTTGCATAGAGCACCTTACTTCTCTGTTGGATCTTGTCTGTTGATATCCTCAGATCT  
GCAATTTGTTCCATTTGTGTTCAACTCTGTCAAAAATGGCTCTACCTGGACTTATGGGACTCTGACTT  
GCAAAGTGATTGCCTTTCTGGGGTTTTGTCTGTTCCACTGCTTTCATGCTCTTCTGCATCAGTGT  
CACCAGATACTTAGCTATCGCCATCACCCTTCTATACAAAGAGGCTGACCTTTTGGACGTGTCTGGCT  
GTGATCTGTATGGTGTGGACTCTGTCTGTGGCCATGGCATTTCCTCCCGGTTTTAGACGTGGGCACTTACT  
CATTATTAGGGAGGAAGATCAATGCGCCTTCCAACACCGCTCCTTCAGGGCTAATGATTCTTAGGATT  
TATGCTGCTTCTTGTCTCATCTCCTAGCCACACAGCTTGTCTACCTCAAGCTGATATTTTTCTGCCAC  
GATCGAAGAAAAATGAAGCCAGTCCAGTTTGTAGCAGCAGTCAGCCAGAACTGGACTTTTCATGGTCTG  
GAGCCAGTGGCCAGGCAGCTGCCAATTGGCTAGCAGGATTTGGAAGGGTCCCACACCACCCACCTTGCT  
GGGCATCAGGCAAAATGCAAACACCACAGGCAGAAGAAGGCTATTGGTCTTAGACGAGTTCAAAAATGGAG  
AAAAGAATCAGCAGAATGTTCTATATAATGACTTTTCTGTTTCTAACCTTGTGGGCCCTACCTGGTGG  
CCTGTTATTGGAGATTTTTGCAAGAGGCCTGTAGTACCAGGGGATTCTAACAGCTGTCTGTGGAT  
GAGTTTTGCCAAGCAGGAATCAATCCTTTTGTCTGCATTTTCTCAAACAGGGAGCTGAGGCGCTGTTTC  
AGCACACCCTTCTTACTGCAGAAAATCCAGGTTACCAAGGAACTTACTGTGTATA

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG228849 representing NM\_001146265  
Red=Cloning site Green=Tags(s)

MANYSHAADNILQNL SPLTAFLKLTSLGFIIGVSVVGNLLISILLVKDKTLHRAPYYFLDLCCSDILRS  
 AICFPFVFN SVKNGSTWYGTLTCKVIAFLGVLSCFHAFMLFCISVTRYLAIAHHRFYTKRLTFWTCLA  
 VICMVWTL SVAMAFPVLDVGTYSFIREEDQCAFQHRFRANDSLGFMLLLALILLATQLVYLKLIFFVH  
 DRRKMKPVQFVAAVSQNWTFHGPASGQAAANWLAGFGRGPTPPTLLGIRQANNTGRRRLVLDEFKME  
 KRISRMYIMTFLFLTLWGPYLVACYWRVVFARGPVVPGGFLTAAVWMSFAQAGINPFVCIFSNRELRRFC  
 STLLLYCRKSRLPREPYCVI

TRTRPLE - GFP Tag - V

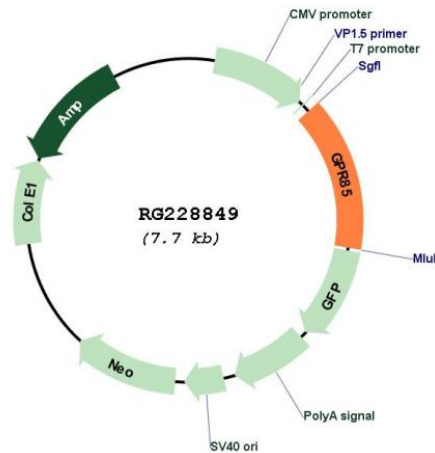
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_001146265

<b>ORF Size:</b>	1110 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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="#">NM_001146265.1</a> , <a href="#">NP_001139737.1</a>
<b>RefSeq Size:</b>	4951 bp
<b>RefSeq ORF:</b>	1113 bp
<b>Locus ID:</b>	54329
<b>UniProt ID:</b>	<a href="#">P60893</a>
<b>Cytogenetics:</b>	7q31.1
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Gene Summary:</b>	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]