

## Product datasheet for **RG213164**

### GPR27 (NM\_018971) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** GPR27 (NM\_018971) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** GPR27  
**Synonyms:** SREB1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG213164 representing NM\_018971  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGAACGCGAGCGAGCCGGGTGGCAGCGGGCGGCGAGGCGGCCCGCTGGGCCTCAAGCTGGCCA  
 CGCTCAGCCTGCTGCTGTGCGTGAGCCTAGCGGGCAACGTGCTGTTGCGCTGCTGATCGTGGGAGCG  
 CAGCCTGCACCGCCCCGTAACCTGCTGCTGACCTGTGCCTGGCCGACGGGCTGCGCGCCTCGCC  
 TGCTCCCGCCGTCATGCTGGCGGCGGGCGTGGCGGCGCCGCGGGGGCGCCCGGGCGCGCTGG  
 GCTGCAAGCTGCTCGCCTCCTGGCGCGCTCTTCTGCTTCCACGCCCTTCTGCTGCTGGCGTGGG  
 CGTACCCGCTACCTGGCCATCGCGACCAACCGCTTATGACAGAGCGCCTGGCCGGCTGGCCGTGCC  
 GCCATGCTGGTGTGCGCCGCTGGCGCTGGCGCTGGCCGCGCCTTCCCGCCAGTGTGGACGGCGGTG  
 GCGACGACGAGGACGCGCCGTGGCCCTGGAGCAGCGGCCGACGGCGCCCCGGCGCGCTGGGCTTCT  
 GCTGCTGGCCGTGGTGGTGGGCGCCACGCACCTCGTACCTCCGCTGCTCTTCTTCCACGAC  
 CGCCGCAAGATGCGGCCCGCGCCTGGTGCCCGCTCAGCCACGACTGGACCTTCCACGGCCCGGGCG  
 CCACCGGCCAGGCGCCGCAACTGGACGGCGGGCTTGGCCCGGGCCACGCCCGCCGCTTGTGGG  
 CATCCGGCCCGAGGGCCGGCCGCGCGCCCGCTCCTCGTGTGGAAGAATTCAAGACGGAGAAG  
 AGGCTGTGCAAGATGTTCTACGCCGTACGCTGCTCTTCTGCTCTTGGGGCCCTACGTCGTGGCCA  
 GCTACCTGCGGGTCTGGTGGCGCCGGCGCGTCCCCAGGCCTACCTGACGGCCTCCGTGTGGCTGAC  
 CTTGCGCAGGCCGCGATCAACCCGCTGCTGCTTCTTCAACAGGGAGCTGAGGGACTGCTTCAGG  
 GCCAGTCCCCTGCTGCCAGAGCCCCGACCACCAGGCGACCATCCTGCGACCTGAAAGGCATTG  
 GTTTA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG213164 representing NM\_018971  
Red=Cloning site Green=Tags(s)

MANASEPGSGGGEEAALGLKLATLSLLLCVSLAGNVLFALLIVRERSLHRAPYYLLDLCLADGLRALA  
 CLPAVMLAARRAAAAAGAPPALGCKLLAFLAALFCFHAFLLLGVGVTRYLAIAHHRFYAERLAGWPCA  
 AMLVCAAWALALAAAFPPVLDGGGDEDAAPCALEQRPDGPAGLGFLLLLAVVVGATHLVYLRLLFFIHD  
 RRKMRPARLVPVSHDWTFHGPGATGQAAANWTAGFGRGPTPPALVGIRPAGPGRGARRLLVLEEFKTEK  
 RLCKMFYAVTLLFLLWGPYVVASYLRLVLRPGAVPQAYLTASVWLTFAQAGINPVVCFLFNRELRDCFR  
 AQFPCCQSPRTTQATHPCDLKIGL

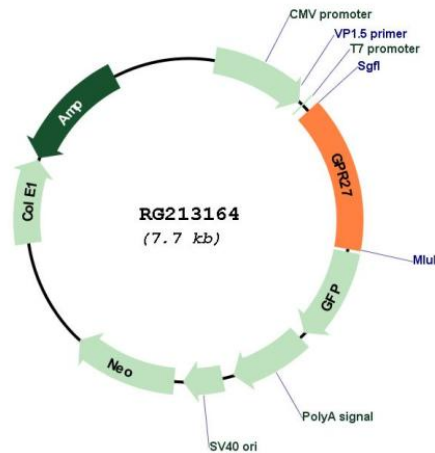
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_018971

<b>ORF Size:</b>	1125 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_018971.3</a>
<b>RefSeq Size:</b>	1128 bp
<b>RefSeq ORF:</b>	1128 bp
<b>Locus ID:</b>	2850
<b>UniProt ID:</b>	<a href="#">Q9NS67</a>
<b>Cytogenetics:</b>	3p13
<b>Domains:</b>	7tm_1
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Gene Summary:</b>	GPR27 is a member of the G protein-coupled receptors (GPCRs), a large family of receptors that 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.[supplied by OMIM, May 2010]