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Product datasheet for RC213164

GPR27 (NM_018971) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR27 (NM_018971) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GPR27
Synonyms:	SREB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC213164 representing NM_018971
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGAACGCGAGCGAGCCGGGTGGCAGCGGCGGCGGCGAGGCGGCCGCCCTGGGCCTCAAGCTGGCCA
CGCTCAGCCTGCTGCTGTGCGTGAGCCTAGCGGGCAACGTGCTGTTCGCGCTGCTGATCGTGCGGGAGCG
CAGCCTGCACCGCGCCCCGTACTACCTGCTGCTCGACCTGTGCCTGGCCGACGGGCTGCGCGCGCTCGCC
TGCCTCCCGGCCGTCATGCTGGCGGCGCGGCGTGCGGCGGCCGCGGCGGGGGCGCCGCCGGGCGCGCTGG
GCTGCAAGCTGCTCGCCTTCCTGGCCGCGCTCTTCTGCTTCCACGCCGCCTTCCTGCTGCTGGGCGTGGG
CGTCACCCGCTACCTGGCCATCGCGCACCACCGCTTCTATGCAGAGCGCCTGGCCGGCTGGCCGTGCGCC
GCCATGCTGGTGTGCGCCGCCTGGGCGCTGGCGCTGGCCGCGGCCTTCCCGCCAGTGCTGGACGGCGGTG
GCGACGACGAGGACGCGCCGTGCGCCCTGGAGCAGCGGCCCGACGGCGCCCCCGGCGCGCTGGGCTTCCT
GCTGCTGCTGGCCGTGGTGGTGGGCGCCACGCACCTCGTCTACCTCCGCCTGCTCTTCTTCATCCACGAC
CGCCGCAAGATGCGGCCCGCGCGCCTGGTGCCCGCCGTCAGCCACGACTGGACCTTCCACGGCCCGGGCG
CCACCGGCCAGGCGGCCGCCAACTGGACGGCGGGCTTCGGCCGCGGGCCCACGCCGCCCGCGCTTGTGGG
CATCCGGCCCGCAGGGCCGGGCCGCGGCGCGCGCCGCCTCCTCGTGCTGGAAGAATTCAAGACGGAGAAG
AGGCTGTGCAAGATGTTCTACGCCGTCACGCTGCTCTTCCTGCTCCTCTGGGGGCCCTACGTCGTGGCCA
GCTACCTGCGGGTCCTGGTGCGGCCCGGCGCCGTCCCCCAGGCCTACCTGACGGCCTCCGTGTGGCTGAC
CTTCGCGCAGGCCGGCATCAACCCCGTCGTGTGCTTCCTCTTCAACAGGGAGCTGAGGGACTGCTTCAGG
GCCCAGTTCCCCTGCTGCCAGAGCCCCCGGACCACCCAGGCGACCCATCCCTGCGACCTGAAAGGCATTG
GTTTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC213164 representing NM_018971
Red=Cloning site Green=Tags(s)

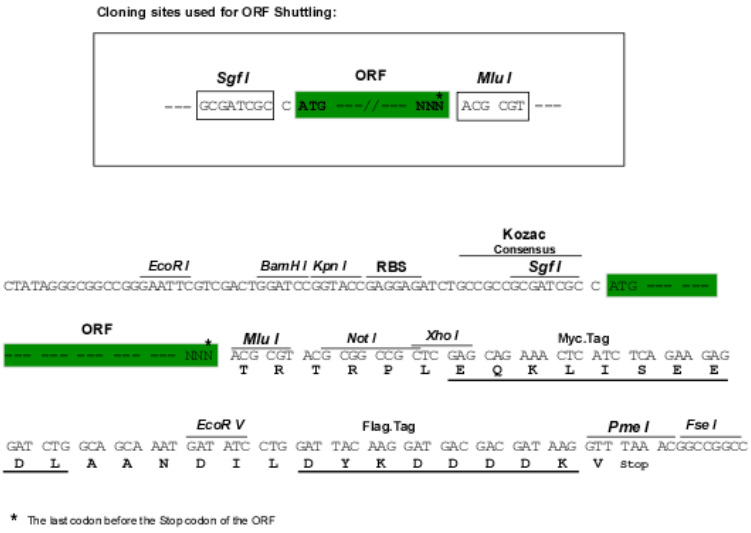
MANASEPGGSGGGEAAALGLKLATLSLLLCVSLAGNVLFALLIVRERSLHRAPYYLLLDLCLADGLRALA
CLPAVMLAARRAAAAAGAPPGALGCKLLAFLAALFCFHAAFLLLGVGVTRYLAIAHHRFYAERLAGWPCA
AMLVCAAWALALAAAFPPVLDGGGDDEDAPCALEQRPDGAPGALGFLLLLAVVVGATHLVYLRLLFFIHD
RRKMRPARLVPAVSHDWTFHGPGATGQAAANWTAGFGRGPTPPALVGIRPAGPGRGARRLLVLEEFKTEK
RLCKMFYAVTLLFLLLWGPYVVASYLRVLVRPGAVPQAYLTASVWLTFAQAGINPVVCFLFNRELRDCFR
AQFPCCQSPRTTQATHPCDLKGIGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6825_c03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018971

ORF Size: 1125 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_018971.3

RefSeq Size: 1128 bp

RefSeq ORF: 1128 bp

Locus ID: 2850

UniProt ID: Q9NS67

Cytogenetics: 3p13

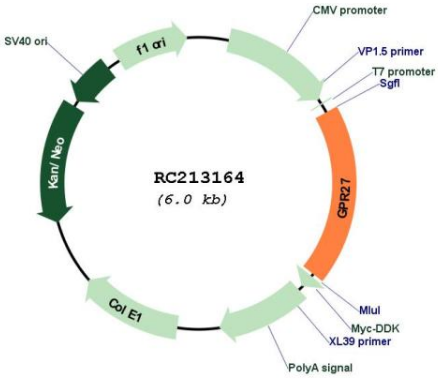
Domains: 7tm_1

Protein Families: Druggable Genome, GPCR, Transmembrane

MW: 39.6 kDa

Gene Summary: 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]

Product images:



Circular map for RC213164