

Product datasheet for RC207570

GPR55 (NM_005683) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR55 (NM_005683) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GPR55
Synonyms:	LPIR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207570 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTCAGAAAACACCAGTGGGGACTGCCTGTTTGACGGTGTCAACGAGCTGATGAAAACCTACAGT
TTGCAGTCCACATCCCCACCTTCGTCCTGGGCTGCTCCTCAACCTGCTGGCCATCCATGGCTTCAGCAC
CTTCCTTAAGAACAGGTGGCCGATTATGCTGCCACCTCCATCTACATGATCAACCTGGCAGTCTTTGAC
CTGCTGCTGGTGTCTCCCTCCATTCAAGATGGTCTGTCCAGGTACAGTCCCCCTCCCGTCCCTGT
GCACCCTGGTGGAGTGCCTTTACTTCGTCAGCATGTACGGAAGCGTCTTACCATCTGCTTCATCAGCAT
GGACCGGTTCTTGCCATCCGTTACCCGCTACTGGTGAGCCACCTCCGGTCCCCAGGAAGATCTTTGGG
ATCTGCTGCACCATCTGGGTCTGGTGTGGACCGAAGCATCCCTATCTACAGTTCCATGGGAAAGTGG
AAAAATACATGTGCTTCCACAACATGTCTGATGATACCTGGAGCGCCAAGGTCTTCTTCCCGCTGGAGGT
GTTTGGCTTCTCCTTCCCATGGGCATCATGGGCTTCTGCTGCTCCAGGAGCATCCACATCCTGTGGGC
CGCCGAGACCACCCAGGACTGGGTGCAGCAGAAAGCCTGCATCTACAGCATCGCAGCCAGCCTGGCTG
TCTTCGTGGTCTCCTTCTCCAGTCCACCTGGGGTCTTCTGTCAGTTCCTGGTGAGAAACAGCTTTAT
CGTAGAGTGCAGAGCCAAGCAGAGCATCAGCTTCTTCTGCAATTGTCCATGTGTTTCTCCAACGTCAAC
TGCTGCCTGGATGTTTTCTGCTACTACTTTGTCATCAAAGAATCCGCATGAACATCAGGGCCCACCGGC
CTTCCAGGGTCCAGCTGGTCTGCAGGACACCAGATCTCCCGGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC207570 protein sequence
Red=Cloning site Green=Tags(s)

MSQQNTSGDCLFDGVNELMKTLLQFAVHIPTFVLGLLLNLAIHGFSTFLKNRWPDYAATSIYMINLAVFD
 LLLVLSLPFKMVLQVQSPFSLCTLVECLYFVSMYGSVFTICFISMDRFLAIRYPLLVSHLRSPRKIFG
 ICCTIWLVTGSIPIYSFHGKVEKYMCFHNMSDDTWSAKVFFPLEVFGFLLPMGIMGFCCSRSIHILLG
 RRDHTQDWVYQKACIYISIAASLAVFVVSFLPVHLGFLLQFLVRNSFIVECRAKQSI SFFLQLSMCF SNV
 CCLDVFCYFVVIKEFRMNIRHRPSRVQLVLQDTTISR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6192_d02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_005683

ORF Size: 957 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_005683.4](#)

RefSeq Size: 3828 bp

RefSeq ORF: 960 bp

Locus ID: 9290

UniProt ID: [Q9Y2T6](#)

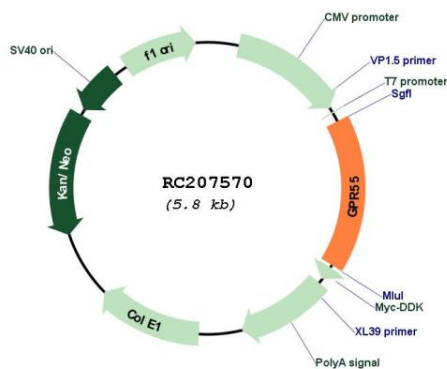
Cytogenetics: 2q37.1

Protein Families: Druggable Genome, GPCR, Transmembrane

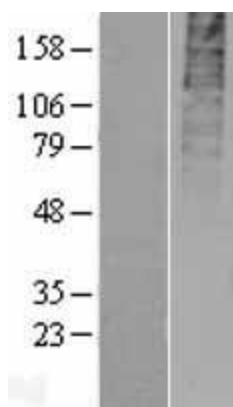
MW: 36.6 kDa

Gene Summary: This gene belongs to the G-protein-coupled receptor superfamily. The encoded integral membrane protein is a likely cannabinoid receptor. It may be involved in several physiological and pathological processes by activating a variety of signal transduction pathways. [provided by RefSeq, Aug 2013]

Product images:



Circular map for RC207570



Western blot validation of overexpression lysate (Cat# [LY401734]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207570 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).