

Product datasheet for MR222607

Gpr55 (NM_001033290) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpr55 (NM_001033290) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gpr55
Synonyms:	CTFL; Gm218; Lpir1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222607 representing NM_001033290 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGAGCCAGCCAGAGCGTGACAACCTGCTCATTTCGATTCCGTGGATAAGCTTACCAGAACCTTGCAGCTGGCAGTCCATATCCCACCTTCTCCTTGGCCTGGTTCTCAACCTACTGGCCATCCGAGGCTTCAGTGCCTCCTAAAGAAGAGGAAGCTGGACTATATCGCCACTTCTATCTACATGATCAACTTGGCTGTTTTCGATTTACTGCTGGTGTCTCCCTCCATTCAAGATGGTCTGCCACAAGTGGAGTCCCCCTTGCCGTCCTTCTGCACTCTGGTGGAGTGCCTCTACTTTCATCAGCATGTATGGGAGTGTCTTACCATCTGCTTCATCAGCCTGGACAGTTTCCCTGGCCATCCAGTACCCGATCCTGGCTAGCCATCTCCGGTCGCCAGGAAGACCTTTGGGATCTGCTGCATCATCTGGATGCTGGTCTGGATCGGAAGCATCCCCATCTACACCTTCCACAGGGAAGTGGAGATACAAGTGCCTTTCACAACATGTCCGATGTCCACTGGAGTGCCAGTGTCTTCTCCCCCTGGAGATCTTGGCTTCTCCTTCCCATGGGCATCATGGGCTTCTGTTCTATAGGAGTATTCACATCCTGCTGCGCCGTCAGACAGCACTGAGGACTGGGTCCAACAGAGAGACACTAAGGGCTGGGTACAAAAGAGAGCCTGCATCTGGACATTGCTACCAATCTTGTTCATCTTGTGGTCTCCTTTCTCCAGTGCCTTGGGCTTCTTCTGCAATCTCTGTGTTTCTCCAACATCAACTGCTGCCTTGATGTTTTTGTACTACTTTGTCATCAAAGAATTCGCATGCGCATCAAGGCCACCGGCCCTCCAACATCAAGCTGGTCAACCAGGATACCATGGTCTCCAGGGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222607 representing NM_001033290
Red=Cloning site Green=Tags(s)

MSQPERDNCSFDSVDKLRTRLQLAVHIPTFLLGLVLNLLAIRGFSAFLLKRRKLDYIATSIYMINLAVFDL
 LLVLSLSPFKMVLQVESPLPSFCTLVECLYFISMYGSVFTICFISLDRFLAIQYPILASHLRSRKTFGI
 CCIWMLVWIGSIPYTFHREVERYKCFHNMSDVTWSASVFFPLEIFGFLPIMGFCSYRSIHILLRR
 PDSTEDWVQQRDTKGWVQKRACIWTIATNLVIFVVSFLPVHLGFFLQYLVRNRFILDCRMKQGISLFLQL
 SLCFSNINCLDVFCYFVIKEFRMRKAHRPSTIKLVNQDTMVSRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9020_g02.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_001033290

ORF Size: 981 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_001033290.2](#), [NP_001028462.2](#)

RefSeq Size: 2550 bp

RefSeq ORF: 984 bp

Locus ID: 227326

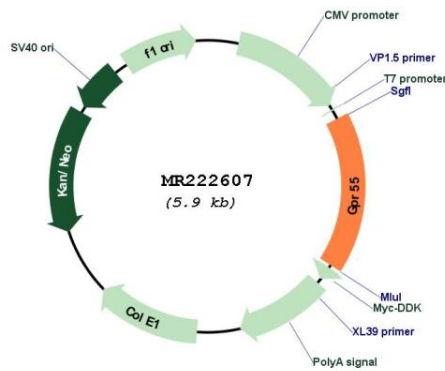
UniProt ID: [Q3UJF0](#)

Cytogenetics: 1 C5

MW: 38.5 kDa

Gene Summary: Receptor for L-alpha-lysophosphatidylinositol (LPI). LPI induces Ca(2+) release from intracellular stores via the heterotrimeric G protein GNA13 and RHOA (By similarity). Putative cannabinoid receptor (By similarity). May play a role in bone physiology by regulating osteoclast number and function (By similarity). May be involved in hyperalgesia associated with inflammatory and neuropathic pain.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222607