

Product datasheet for MR214992

Gpr3 (NM_008154) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gpr3 (NM_008154) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Gpr3
Synonyms: Gpcr3; Gpcr20; Gpcr21
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR214992 representing NM_008154
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATGTGGGGAGCAGGAAGCTCTATGGCCTGGTTCTCAGCTGGCTCAGGCAGTGTGAACGTGAGCAGCG
 TGGACCCAGTAGAGGAACCCACAGGCCAGCTACACTGCTGCCCTCTCCAGGGCCTGGGATGTGGTGCT
 GTGCATCTCAGGCACCCCTGGTGCCTGCGAGAACGCGCTGGTGGTGGCCATCATTGTGGGCACTCCTGCC
 TTCCGCGCCCCATGTTCTGCTGGTGGTAGCTTGGCCGTAGCAGACCTGCTGGCAGGCCTGGGCTGG
 TCCTGCACCTTTGGGCTGACTTCTGCATTGGCTCACCAGAGATGAGCTTGATGCTGGTCGGCGTGCTAGC
 AATGGCCTTCACTGCCAGCATCGGCAGCCTGCTGGCCATTACCGTTGACCGCTACCTTTCCCTGTACAAT
 GCTCTCACTTACTACTCAGAGACAACGGTAACTCGGACTTATGTGATGCTGGCCTTGGTGTGGGTGGGTG
 CCCTGGGCTGGGGCTGGTTCCTGCTGGCCTGGAACCTGCCGGGATGGCCTGACCACGTGTGGTGTGGT
 CTATCCAATCTCCAAGAACCATCTGGTGGTCTGGCCATCGCCTTCTTATGGTGTGGTGGTGGTGGT
 CAGCTCTATGCCAGATCTGCCGATCGTCTGCCGCCATGCCAGCAGATCGCCCTCCAACGACACCTGC
 TGCTGCTCTCACTACGTGGCCACCCGAAGGGCATCGCCACATTGGCTGTGGTGGTGGGCGCTTTGC
 TGCTGTTGGTTGCCCTCACTGTCTACTGCCTCCTGGGAGATGCCGACTCTCCCGTCTCTACACCTAT
 CTTACCCTGCTCCAGCCACCTACAACCTCATGATCAACCCTGTATCATCTACGCTTTCCGCAACCAAGATG
 TGCAGAAGGTGCTGTGGCCATCTGCTGCTGCTTCCACTTCCAAGATTCCATTCCGGTCCCGGTCCTCC
 TAGTGATGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR214992 representing NM_008154
Red=Cloning site Green=Tags(s)

MMWGAGSSMAWF SAGSGSVNVSSVDPVEEPTGPATLLPSRAWVVL C ISGTLVSCENALVVAIIVGTPA
FRAPMFLLVGSLAVADLLAGLGLVLHFAADFCIGSPMSLMLVGLVMAFTASIGSLLAITVDRYLSLYN
ALTYSETTVTRTYVMLALVWVGALGLGLVPVLAWNCRDGLTTCGVVYPLSKNHLVVLAI AFFMVF GIML
QLYAQICRIVCRHAQQIALQRHLLPASHYVATRKGIATLAVVLGAF AACWLPFTVYCLLGDADSPRLYTY
LTLLPATYNSMINPVIYAFRNQDVQKVLWAI CCCSTSKIPFRSRSPSDV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9020_f06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008154

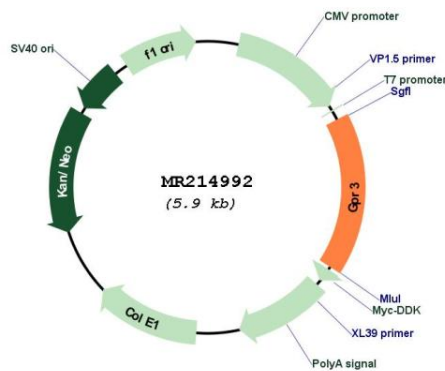
ORF Size: 990 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_008154.3](#), [NP_032180.1](#)
- RefSeq Size:** 2159 bp
- RefSeq ORF:** 993 bp
- Locus ID:** 14748
- UniProt ID:** [P35413](#)
- Cytogenetics:** 4 D2.3
- MW:** 35.9 kDa
- Gene Summary:** Orphan receptor with constitutive G(s) signaling activity that activate cyclic AMP. Has a potential role in modulating a number of brain functions, including behavioral responses to stress, amyloid-beta peptide generation in neurons (By similarity) and neurite outgrowth (By similarity). Maintains also meiotic arrest in oocytes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR214992