

Product datasheet for **MR229304**

Gpr12 (NM_001010941) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpr12 (NM_001010941) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gpr12
Synonyms:	Gpcr01; Gpcr12; Gpcr20; Gpcr21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR229304 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACGAAGACCCGAAGGTCAATTTAAGCGGGCTGCCTCGGGACTGTATAGATGCCGGTCTCCAGAGA
ACATCTCAGCCGCTGTCCCCTCCAGGGCTCTGTTGCGGAGTCAGAACCCGAGCTCGTTGTCAACCCCTG
GGACATTGTCTTGTGCAGCTCAGGAACCCTCATCTGCTGTGAAAATGCCGTTGTGGTCTTATCATCTTC
CACAGCCCAGCCTGCGAGCCCCATGTTCTACTGATAGGCAGCCTGGCTCTTGACAGCCTGCTGGCTG
GCCTGGGACTCATCATCAATTTTGTGTTTGCCTACCTGCTTCAGTCAGAAGCCACCAAGCTGGTCACCAT
CGGACTCATTGTGCCTCTTTCTGCTGCTGTCAGTTTGCTGGCTATTACTGTGGACCGCTACCTC
TCGCTATATTACGCCCTGACGTACCACTCCGAGAGGACCGTCACCTTTACCTATGTCATGCTAGTGATGC
TCTGGGAACTCCATCTGCCTGGGGCTGCTGCCGTCATGGGCTGGAAGTCTTGAGGGACGAGTCCAC
CTGCAGCGTGGTCCAGCCTCTCACTAAGAACAACGCTGCCATCCTCTCCATCTCCTTCTTTCATGTTT
GCTCTGATGCTTCAGCTCTACATCCAGATTTGTAAGATTGTGATGAGGCACGCCATCAGATAGCCCTGC
AGCACCCTTCTGGCTACATCGCACTATGTGACTACCCGAAAGGGTCTCGACCCTGGCTCTCATCCT
AGGGACCTTTGCTGCCTGCTGGATGCCTTTCACCCTCTATTCTTGATCGCCGATTACACCTACCCTTCG
ATCTATACCTATGCCACCCTCTGCCGCCACCTACAATTCCATCATCAACCCCTGTCATTTACGCTTTC
GAAACCAAGAGATCCAGAAAGCCCTCTGCCTCATTGCTGTGGGTGCATCCCTTCTCGCTGCTCAGAG
AGCTCGGTCTCCAGCGATGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229304 protein sequence
 Red=Cloning site Green=Tags(s)

MNEDPKVNL SGLPRDCIDAGAPENISA AVPSQGSVAESEPELVVNPWDIVL CSSGTLICENAVVLIIF
 HSPSLRAMPFLLIGSLALADLLAGLGLI IN FVFAYLLQSEATKLVTIGLIVASF SASVCSLLAITVD RYL
 SLYYALTYHSERTVTFTYVMLV MLWGTSICLGLLPVMGWNCLRDESTCSVVRPLTKNNAAILSISFLFMF
 ALMLQLYIQICKIVMRHAHQIALQHHFLATSHYVTRKGVSTLALILGTFAACWMPFTLYSLIADYTYP S
 IYTYATLLPATYNSIINPVIYAFRNQEIQKALCLICCGCIPSSLQRARSPSDV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001010941

ORF Size: 1005 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_001010941.2](#), [NP_001010941.1](#)

RefSeq Size: 2485 bp

RefSeq ORF: 1005 bp

Locus ID: 14738

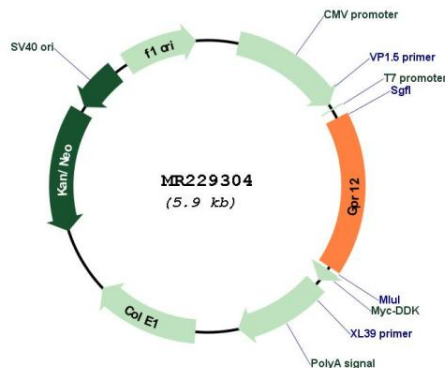
UniProt ID: [P35412](#)

Cytogenetics: 5 G3

MW: 36.6 kDa

Gene Summary: Receptor with constitutive G(s) signaling activity that stimulates cyclic AMP production (By similarity). Promotes neurite outgrowth and blocks myelin inhibition in neurons. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR229304