

Product datasheet for MR216036

Gpr157 (NM_177366) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Gpr157 (NM_177366) Mouse Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Gpr157
 Synonyms: F730108M23Rik
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >MR216036 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCTACCCGCGCCTCCACCGAGCTGCTGCCGTGGGAGCGCGGGTGGTGTCTGTCTCGTGTGCGC
 TGTGAGCTCTGGGCTCGGGCCTCCTGGTGGCCACGCACGCCCTGTGGCCTGACCTGCGTAGCCGGGCGCG
 GCGCCTGCTACTTCTGTCGCTAGCGGACCTGCTCTCGGCTGCCTCGTACTTCTACGGAGTGTGCAG
 GACTTTGCGGGCACTTCGTGGGATTGCGTCCTCAGGGCGCTCTCTACTTTCCGCAACACCAGCTCCT
 TCTTCTGGACGGTGGCCATCGCCCTCTACCTATACCTCAGCATCGTCCGAACTACGCGGGGCCCTCCAC
 GGACCACCTAATCTGGGCTTTTACCTCATCAGCTGGGGTGTCCCGTTGGCCATCACAGTGGCAGCCGTC
 TCTCTAAAGAAGATAGGCTACGATGCCTCAGATGTGTCCGTGGGCTGGTGTGGATCAACCTGGAGGCTG
 AGGACCGTGTCTGTGGATGCTACTGACCGGGAAGCTGTGGGAGATGCTGGCTTATATCTTGCTACCTCT
 GCTGTACCTTTTGGTCAGAAAGCACATCAACAGGGCGCACCGGCGCTCTCGGAGTACCGGCCCATCTGC
 GAGGGGCGCCAGCTGCAGCGAGGCTCCTCCACTCCACGGCAGATAAAGAAGTTGGTCTCATTCCGCTCA
 TATTCACTGCCTCCGCGTCTGGAGCACCGTGCCTTTGTCTGACGCTCTGTGGTTCGCCGGCTGTACA
 GACACCCGTGCTGGTTGTTCTGCATGGCATTGAAACACCTTCCAGGGAGGGGCCAACTGCATCATGTTCC
 GTCCTCTGTACCCGGGCGAGTCCGCACAAGGCTCTTTTCTTTGCTGCTGTCTCTCGGCCCTCCACCC
 AGAGCCCTCCGGGGCTCCTACGCCCCCAAGATAGGAGAATCTCAGGAATCCAGACGGACCCGAGAAGT
 GCCCAGCACT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR216036 protein sequence
Red=Cloning site Green=Tags(s)

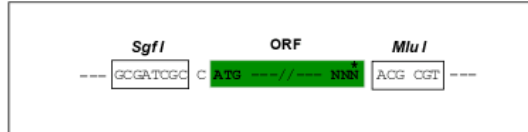
MPSPAPPTPELLPWERAVLLSCALSALGSGLLVATHALWDLRSRARRLLLFLSLADLLSAASYFYGVLQ
 DFAGTSWDCVLQALSTFANTSSFFWTVAIALYLIVRTTRGPSTDHLIWFHILISWGVPLAITVAAV
 SLKKIGYDASDVSVGWCWINLEAEDRVLWMLLTGKLWEMLAYILLPLL YLLVRKHINRAHQALSEYRPI
 EGRQLQRGSSTADKKLVLIPLIFICLRVWSTVRFVLTLCGSPAVQTPVLVVLHGIGNTFQGGANCIMF
 VLCTRAVRTRLFSLCCCCPRPSTQSPPGAPTPPKIGESQESRRTPPEVPT

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_177366

ORF Size: 993 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_177366.3](#), [NP_796340.2](#)

RefSeq Size: 4762 bp

RefSeq ORF: 993 bp

Locus ID: 269604

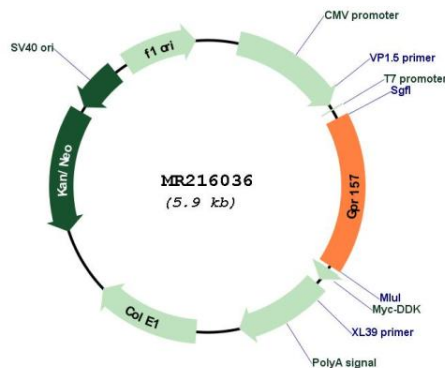
UniProt ID: [Q8C206](#)

Cytogenetics: 4 E2

MW: 36.3 kDa

Gene Summary: Orphan receptor that promotes neuronal differentiation of radial glial progenitors (RGPs) (PubMed:27142930). The activity of this receptor is mediated by a G(q)-protein that activates a phosphatidylinositol-calcium second messenger (PubMed:27142930).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR216036