

Product datasheet for **MG216036**

Gpr157 (NM_177366) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gpr157 (NM_177366) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Gpr157
Synonyms: F730108M23Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG216036 representing NM_177366
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCTACCCGCGCCTCCCACCGAGCTGCTGCCGTGGGAGCGCGCGGTGGTGTGCTGTCTGCTGTGCGC
TGTGAGCTCTGGGCTCGGGCCTCTGGTGGCCACGCACGCCCTGTGGCCTGACCTGCGTAGCCGGGCGCG
GCGCCTGCTACTTCTGTCGCTAGCGGACCTGCTCTCGGCTGCCTCGTACTTCTACGGAGTGTGCAG
GACTTTGCGGGCACTTCGTGGGATTGCGTCCTCAGGGCGCTCTCTACTTTCCGCAACACCAGCTCCT
TCTTCTGGACGGTGGCCATCGCCCTCTACCTATACCTCAGCATCGTCCGAACTACGCGGGGCCCTCCAC
GGACCACCTAATCTGGGCTTTTACCTCATCAGCTGGGGTGTCCCGTTGGCCATCACAGTGGCAGCCGTC
TCTCTAAAGAAGATAGGCTACGATGCCTCAGATGTGTCCGTGGGCTGGTGTGATCAACCTGGAGGCTG
AGGACCGTGTCTGTGGATGCTACTGACCGGGAAGCTGTGGGAGATGCTGGCTTATATCTTGCTACCTCT
GCTGTACCTTTTGGTCAGAAAGCACATCAACAGGGCGCACCGGCGCTCTCGGAGTACCGGCCCATCTGC
GAGGGGCGCCAGCTGCAGCGAGGCTCCTCCACTCCACGGCAGATAAGAAGTTGGTCTCATTCCGCTCA
TATTCATCTGCCTCCGCGTCTGGAGCACCGTGCCTTTGTCTGACGCTCTGTGGTTCGCCGGCTGTACA
GACACCCGTGCTGGTTGTTCTGCATGGCATTGAAACACCTTCCAGGGAGGGGCCAACTGCATCATGTTCC
GTCCTCTGTACCCGGGCGAGTCCGCACAAGGCTCTTTTCTTTGCTGTGCTGTCTCGGCCCTCCACCC
AGAGCCCTCCGGGGCTCCTACGCCCCCAAGATAGGAGAATCTCAGGAATCCAGACGGACCCGAGAAGT
GCCAGCACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG216036 representing NM_177366
 Red=Cloning site Green=Tags(s)

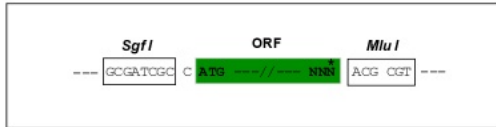
MPSAPPTPELLPWERAVLLSCALSALGSGLLVATHALWDLRSRARRLLLFLSLADLLSAASYFYGVLQ
 DFAGTSWDCVLQALSTFANTSSFFWTVAIALYLIVRTTRGPSTDHLIWFHLISWGVPLAITVAAV
 SLKKIGYDASDVSVGWCWINLEAEDRVLWMLLTGKLWEMLAYILLPLL YLLVRKHINRAHQALSEYRPIC
 EGRQLQRGSSTSTADKKLVLIPLIFICLRVWSTVRFVLTLCGSPAVQTPVLVVLHGIGNTFQGGANCIMF
 VLCTRAVRTRLFSLCCCCPRPSTQSPPGAPTPPKIGESQESRRTPEVPST

TRTRPLE - GFP Tag - V

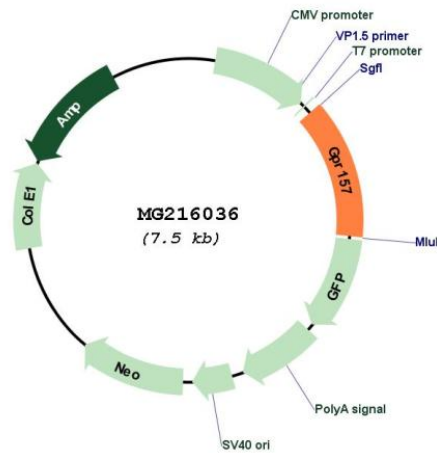
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_177366

ORF Size: 990 bp

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|-------------------------------|---|
| 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: | <ol style="list-style-type: none">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 |
| 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] |