

Product datasheet for **RG221593**

GPR157 (NM_024980) Human Tagged ORF Clone

Product data:

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|---------------------------|-----------------------------------------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | GPR157 (NM_024980) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | GPR157 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG221593 representing NM_024980 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGCCGTCCTCCGCGCCACCGAGCTGGTGCCGTCGGAGCGCGCCGTTGGTGTGCTGTGCTGCGGCAC
TCTCCGCGCTCGGCTCGGGCCTGCTGGTGGCCACGCACGCCCTGTGGCCGACCTGCGCAGCCGGGCACG
GCGCCTGCTGCTTCTCTGTCGCTGGCCGACCTGCTCTCGGCCGCTCTACTTCTACGGAGTGTGCGAG
AACTTCGCGGGCCCGTCTGGGACTGCTGCTGCAGGGCGCGCTGTCCACCTTCGCCAACACCAGCTCCT
TCTTCTGGACCGTGGCCATTGCGCTCTACTTGTACCTCAGCATCGTCCGCGCCGCGCGGGCCTCGCAC
AGATCGCCTGCTTTGGGCCTTCCATGTCGTCAGCTGGGGGTCCCGTTGGTCATCACTGTGGCGGCCGTC
GCCCTGAAGAAGATTGGCTATGACGCCTCGGACGTGCTGTGGGCTGGTGTGGATCGACCTGGAGGCCA
AGGACCATGTCCTGTGGATGCTGCTGACGGGAAGCTGTGGGAGATGCTGGCATAATGTGCTGCTGCCTCT
GCTGTACCTCCTGGTCCGGAAGCACATCAACAGAGCGCACACGGCACTCTNTGAGTACCGGCCCATCCTC
TCCCAGGAGCACCCTGCTGCGCCACTCCTCCATGGCGGACAAGAAGCTGGTGTCTATCCCGCTCATCT
TCATCGGCCTCAGGGTCTGGAGCACCGTTCGGTTCGTCGCTGACCTCTGTGGCTCCCGGCCGTCGAGAC
GCCGGTGTGGTGGTTCTGCATGGTATCGGGAACACGTTTCAGGGAGGTGCCAACTGCATCATGTTCTGTC
CTCTGCACCCGCGCCGTCGGAACCTGGCTCTTCTCTCTGTTGTGCTGCTGCTCTTCTCAGCCTCCCA
CCAAGAGCCCGGCTGGCACTCCCAAGGCTCCCGCCCTTCCAAGCCAGGAGAATCTCAGGAATCCCAAGG
GACCCAGGGAACTTCCAAGCACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221593 representing NM_024980
Red=Cloning site Green=Tags(s)

MQPSPPTTELVPSERAVLLSCALSALGSGLLVATHALWDLRSRARRLLLFLSLADLLSAASYFYGVLQ
 NFAGPSWDCVLQALSTFANTSSFFWTVAIALYLIVRAARGPRTDRLLWAFHVSVWGVPLVITVAAV
 ALKKIGYDASDVSVGWCWIDLEAKDHVLWMLLTKLWEMLAYVLLPLL YLLVLRKHINRAHTALXEYRPIL
 SQEHRLXRHSSMADKKLVL IPLIFIGLRVWSTVRFVLTLCGSPAVQTPVLVVLHGIGNTFQGGANCIMFV
 LCTRAVRTRLFSLCCCCSSQPPTKSPAGTPKAPAPSKPGESQESQGTPEL PST

TRTRPLE - GFP Tag - V

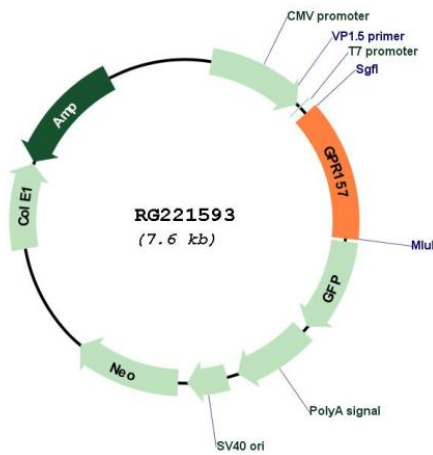
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_024980

ORF Size: 1005 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_024980.3 , NP_079256.3 |
| RefSeq Size: | 1153 bp |
| RefSeq ORF: | 1008 bp |
| Locus ID: | 80045 |
| UniProt ID: | Q5UAW9 |
| Cytogenetics: | 1p36.22 |
| Protein Families: | Druggable Genome, Transmembrane |
| Gene Summary: | Orphan receptor that promotes neuronal differentiation of radial glial progenitors (RGPs). The activity of this receptor is mediated by a G(q)-protein that activates a phosphatidylinositol-calcium second messenger.[UniProtKB/Swiss-Prot Function] |