

Product datasheet for **RR213426**

Gpr157 (NM_001012107) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gpr157 (NM_001012107) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Gpr157
Synonyms: MGC109533
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR213426 representing NM_001012107
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCCACACCCGCGCCTCCACCGAGCTGCTGCCGTGGGAGCGCGGGTGGTACTGCTGTCTGTGTGC
TGTCAGCTCTGGGCTCCGGCCTCCTGGTGGCCACGCACGCCCTGTGGCCTGACCTGCGTAGCCGGGCTCG
GCGCCTGCTACTTCTCGTGTGCTGGCGGACCTGCTCTCGGCTGCCTCGTACTTCTACGGAGTGTGCAG
GACTTTGCGGGCACTTCGTGGGATTGCGTCCTCAGGGCGCGCTCTACTTTCCGCAACACCAGTTCCT
TCTTCTGGACCGTGGCCATCGCCCTCTACCTATACCTCAATATCGTCCGAGCTACGCGCGGGCCCTGCAC
GGACCACCTAGTCTGGGCTTTTACCTCATCAGCTGGGGTGTCCCGTTGGCTATCACAGTGGCAGCCGTC
TGTCTAAAGAAGATAGGCTACGATGCCTCTGATGTGTCCGTGGGCTGGTCTGGATCAACCTGGAGGCCG
AGGACCGTGTCTGTGGATGCTACTGACCGGGAAGCTGTGGGAGATGCTGGCTTACATCTTGCTACCTCT
GCTGTACCTTTTGGTCAGGAAGCACATCAACAGGGCGCACCGGCGCTCTCGGAGTACCGGCCCATCTGG
GAGGGGCGCCAGCTGCAGCGAGGCTCCCCACCTCCATGGCTGATAAGAACTGATCCTCATTCCCTTCA
TATTCATCTGCCCTCCGGGTCTGGAGCACCGTGCCTTTGCTGACCCCTGTGGCTCCCCGTTGTGCA
GGCACCAGTGTGGTTGTTCTACATGGCATTGGAACACCTTCCAGGGAGGGGCCAACTGCATCATGTTT
GTCCTCTGCACCCGGGCGTCCGCACAAGGCTCTTCTCTCTCTGCTGCTATCCTCGGCCCCCACC
AGAACCCTCCTGGGGCTTCCATCCCCCAAGATGGGGGAATCTCAGGAATCCAGACGGACCCAGAAGT
GCCCAGCACT

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR213426 representing NM_001012107
 Red=Cloning site Green=Tags(s)

MPTPAPPTPELLPWERAVLLSCVLSALGSGLLVATHALWDLRSRARRLLLFLSLADLLSAASYFYGVLQ
 DFAGTSWDCVLQALSTFANTSSFFWTVAILYLYLNIVRATRGPCDHLVWAFHLISWGVPLAITVAAV
 CLKKIGYDASDVSVGWCWINLEAEDRVLWMLLTGKLWEMLAYILLPLL YLLVVRKHINRAHQALSEYRPIW
 EGRQLQRGSPSTMADKKLILIPFIFICLRVWSTVRFVLTLCGSPVVQAPVLVVLHGIGNTFQGGANCIMF
 VLCTRA VRTRLFSLCCCYPRPPTQNPFGASIPPKMGESQESRRTPEVPST

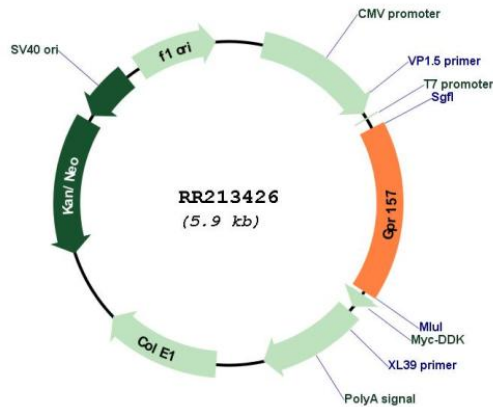
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001012107

ORF Size: 990 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:	<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_001012107.1 , NP_001012107.1
RefSeq Size:	2362 bp
RefSeq ORF:	993 bp
Locus ID:	313725
UniProt ID:	Q5FVG1
Cytogenetics:	5q36
MW:	36.7 kDa
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]