

Product datasheet for **RG218990**

GPRI37C (NM_001099652) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	GPRI37C
Synonyms:	TM7SFIL2
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG218990 representing NM_001099652
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGGGTGTCCGTGCCGGTCCGGCGGCCGCTGCCGCCCCGAGCCGGCCGCGAGCCCTCCACGCCCC
GCGGGGGCAGCGGAGGCGGAGGCGCCGCTCGCTGCAGCCTCAGGCGCCGGTGCCGGGCTCCGTGCAGTT
GGCGCTGAGCGTCTGCACGCCCTGCTCTACGCCGCGCTGTTCCGCTTTGCCTACCTGCAGCTGTGGCGG
CTGCTCCTGTACCGCGAGCGCGGCTGAGTTACCAGAGCCTCTGCCTCTTCCTCTGTCTCCTGTGGGCAG
CGCTCAGGACCACCCTCTTCTCGCCGCTTCTCGCTCAGCGGCTCCCTGCCCTTGCTCCGGCCGCCCCG
TCACCTGCACCTTCTCCCCACTGGCTGCTCTACTGCTTCCCTCCTGTCTCCAGTTCTCCACGCTCTGT
CTCCTCAACCTCTACCTGGCGGAGGTTATATGAAAGTCAGATGTGCCACTGAACCTGACAGACAAAA
TTCTACTGCATTTGGGCTTTATAATGGCAAGCCTGCTCTTTTAGTGGTGAACCTGACTTGCGCAATGCT
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CTCTCCAGAGCTTGTATAATTTGGTGGTGGTCACCATATCTCAGGATACATTAGAAAGTCCATTTAAT
TATGGCTGGGATAATCTTTAGATAAGGCTCATGTAGAAGACATAAGTGGAGAAGAGTATATAGTATTTG
GAATGGTCTCTTTCTGTGGGAACATGTGCCAGCATGGTCGGTGGTACTGTTTTTCCGGGCACAGAGATT
AAACCAGAATTTGGCACCTGCTGGCATGATAAATAGTCACAGTTATAGTCCAGAGCTTACTTTTTCGAC
AATCCAAGACGATATGATAGTGATGATGACCTGCCAAGACTGGGAAGTTCAAGAGAAGGAAGTTACCAA
ATTCGCAAAGTTTGGGCTGGTATGGCACCATGACTGGGTGTGGCAGCAGAGTTACACAGTCACTCCCCA
CCTGAATGGACCTATGACAGATACTGCTCCTTTGCTCTTTACTTGTAGTAATTTAGATTTGAACAATCAT
CATAGCTTATATGTGACACCACAAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence:

>RG218990 representing NM_001099652

Red=Cloning site Green=Tags(s)

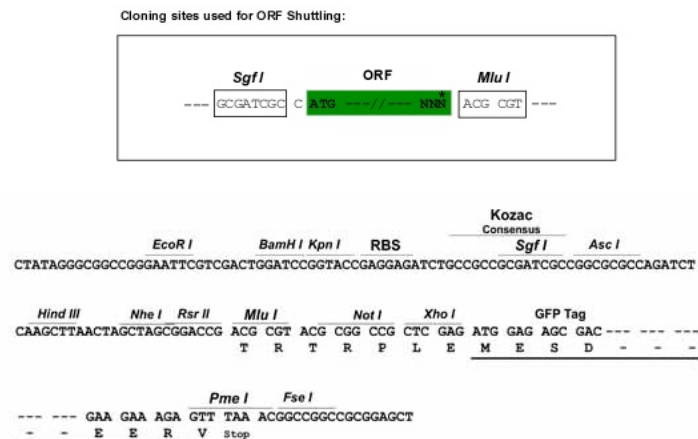
MRVSVPGPAAAAAAGREPSTPGGGSGGGGAVAAASGAAVPGSVQLALSVLHALLYAALFAFAYLQLWR
 LLLYRERRLSYQSLCLFLCLLWAALRTTLFSAAFSLSGSLPLLRPPAHLHFFPHWLLYCFPSCLQFSTLC
 LLNLYLAEVICKVRCATELDRHKILLHLGFIMASLLFLVVNLTCAMLVHGDVPENQLKWTVFVRALINDS
 LFILCAISLVICYICKITKMSSANVYLESKGMSLCQTVVVGSVVILLYSSRACYNLVVVTISQDTLESPFN
 YGWDNLSDKAHVEDISGEEYIVFGMVLFLWEHVPAWSVVLFFRAQRLNQNLAPAGMINSHSYSSRAYFFD
 NRRYDSDDDLPRLGSSREGSLPNSQSLGWYGMTGCGSSSYTVTPHLNGPMTDTAPLLFTCSNLDLNNH
 HSLYVTPQN

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_001099652

ORF Size:

1287 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001099652.2](#)

RefSeq Size: 3908 bp

RefSeq ORF: 1290 bp

Locus ID: 283554

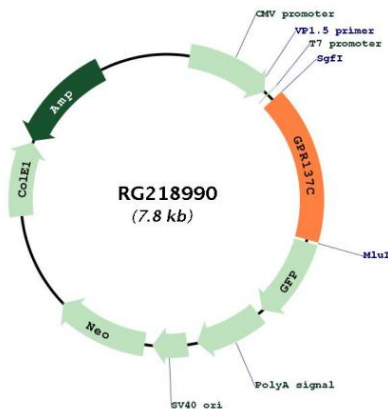
UniProt ID: [Q8N3F9](#)

Cytogenetics: 14q22.1

Protein Families: Druggable Genome, Transmembrane

Gene Summary: Lysosomal integral membrane protein that may regulate MTORC1 complex translocation to lysosomes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG218990