

Product datasheet for **RG229921**

GPR137 (NM_001170881) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: GPR137 (NM_001170881) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: GPR137
Synonyms: C11orf4; GPR137A; TM7SF1L1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG229921 representing NM_001170881
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGAGTAACCTGTCTGGCCTGGTGCCTGCTGCCGGGCTGGTGCCTGCCCTGCCACCTGCTGTGACCC
 TGGGGCTGACAGCTGCCTACACCACCCTGTATGCCCTGCTCTTCTCCTCGTCTATGCCAGCTCTGGCT
 GGTGCTTCTGTATGGGCACAAGCGTCTCAGCTATCAGACGGTGTCTCGGCCCTGTCTGCTCTGGGCC
 GCCTTGGTACCACCCTTCTCCTTCTACTTCCGAGATACTCCCGCGCCAACCGCCTGGGGCCCTTGC
 CCTTCTGGCTTCTACTGCTGCCCGTCTGCCTGCAGTTCTTACCTTGACGCTTATGAACCTCTACTT
 TGCCAGGTGGTGTCAAGGCCAAGGTGAAGCGTCGGCCGAGATGAGCCGAGGCTTGTCTGCTGTCCGA
 GGGCCTTTGTGGGGCCTCGCTGCTCTTCTGCTGGTGAACGTGCTGTGTGCTGTCTCCCATCGGC
 GCCGGGCACAGCCCTGGGCCCTGCTGCTTGTCCGCGTCTGGTGAAGGACTCCCTGTTGTCATCTGCGC
 GCTGTCTTGTGCTGCCTGCCTCGCTCGCCAGGCGGGCGCCCTCCACTAGCATCTACCTGGAGGCC
 AAGCGGACCTGGTGAATGACCTGGGAACAAAGGCTACCTGGTATTTGGCCTCATCCTTTCGTGTGGG
 AGCTACTGCCACCACCCTGCTGGTGGGCTTCTCCGGGTGCACCGGCCCCACAGGACCTGAGCACCAG
 CCACATCTCAATGGGCAGGTCTTTGCCTCTCGGTCTACTTCTTTGACCGGGCTGGGACTGTGAAGAT
 GAGGGCTGCTCCTGGGAGCACAGCCGGGTGAGAGCACCAGTATGTCGGGCAGCTAGGCTCTGGGAGCT
 GGTATGGTGCATCGGGCGTGAAGCCGGCTGGTATGGGGCAGCCAGACGAAGACCCTCTGCTCTT
 CTCCAGGTGCCAGGACCAGCGGCCACCACCACAGTCTCTACTCCACCCACAGACG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG229921 representing NM_001170881
 Red=Cloning site Green=Tags(s)

MESNLSGLVPAAGLVPALPPAVTLGLTAAYTTL YALLFFSVYAQLWL VLLYGHKRLSYQT VFLALCLLWA
 ALRRTTLFSFYFRDTPRANRLGPLPFWLL YCCPVCLOFFTL TLMNLYFAQVVFKAKVRRPEMSRGLLAVR
 GAFVGSALLFLLVNLCAVLSHRRRAQPWALL VRVLVSDSLFVICALSLAACLCVARRAPSTSIYLEA
 KADLVNDLGNKGYLVFGLILFVWELLPTLL VGFVRVHRPPQDLSTSHILNGQVFASRSYFFDRAGHCED
 EGCSWEHSRGESTSMGSLGSGSWYGAIGREP GWYGGSQTKTTPLLFSQVPGPGGHHHSLYSTPQT

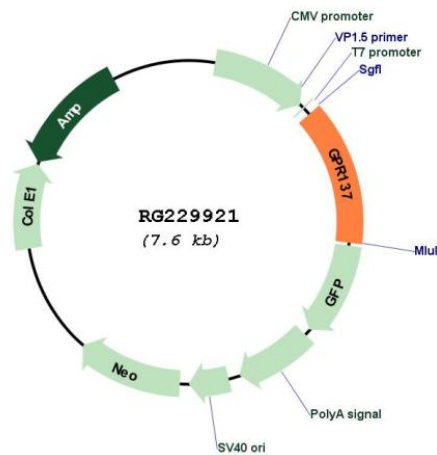
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001170881

ORF Size: 1038 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_001170881.2
RefSeq Size:	1946 bp
RefSeq ORF:	1041 bp
Locus ID:	56834
UniProt ID:	Q96N19
Cytogenetics:	11q13.1
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	Lysosomal integral membrane protein that may regulate MTORC1 complex translocation to lysosomes (PubMed:31036939). May play a role in autophagy (PubMed:31036939). [UniProtKB/Swiss-Prot Function]