

Product datasheet for RC229921

GPR137 (NM_001170881) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR137 (NM_001170881) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GPR137
Synonyms:	C11orf4; GPR137A; TM7SF1L1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC229921 representing NM_001170881 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGAGTAACCTGTCTGGCCTGGTGCCTGCTGCCGGGCTGGTGCCTGCGCTGCCACCTGCTGTGACCC
TGGGGCTGACAGCTGCCTACACCACCCTGTATGCCCTGCTCTTCTCCTCGTCTATGCCAGCTCTGGCT
GGTGTCTCTGTATGGGCACAAGCGTCTCAGCTATCAGACGGTGTCTCGGCCCTGTCTGCTCTGGCC
GCCTTGGTACCACCCTTCTCCTTCTACTTCCGAGATACTCCCGCGCCAACCGCCTGGGGCCCTTGC
CCTTCTGGCTTCTACTGCTGCCCGTCTGCCTGCAGTTCTTACCTTGACGCTTATGAACCTCTACTT
TGCCAGGTGGTGTCAAGGCCAAGGTGAAGCGTCGGCCGAGATGAGCCGAGGCTTGTCTGCTGTCCGA
GGGGCCTTTGTGGGGCCTCGCTGCTCTTCTGCTGGTGAACGTGCTGTGTGCTGTCTCCCATCGGC
GCCGGGCACAGCCCTGGGCCCTGCTGCTTGTCCGCTCCTGGTGAAGGACTCCCTGTTGTCATCTGCGC
GCTGTCTCTTGTGCTGCCTGCCTCGCTCGCCAGGCGGGCCCTCCACTAGCATCTACCTGGAGGCC
AAGCGGACCTGGTGAATGACCTGGGAACAAAGGCTACCTGGTATTTGGCCTCATCCTTCTGTGTGG
AGCTACTGCCACCACCCTGCTGGTGGGCTTCTCCGGGTGCACCGGCCCCACAGGACCTGAGCACCAG
CCACATCTCAATGGGCAGGTCTTTGCCTCTCGGTCTACTTCTTTGACCGGGCTGGGACTGTGAAGAT
GAGGGCTGCTCCTGGGAGCACAGCCGGGTGAGAGCACCAGTATGTCGGGCACTAGGCTCTGGGAGCT
GGTATGGTGCCATCGGGGTGAGCCGGGCTGGTATGGGGCAGCCAGACGAAGACCACTCCTCTGCTCTT
CTCCAGGTGCCAGGACCAGGCGCCACCACCACAGTCTCTACTCCACCCACAGACG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC229921 representing NM_001170881
 Red=Cloning site Green=Tags(s)

MESNLSGLVPAAGLVPALPPAVTLGLTAA YTTL YALLFFSVYAQLWL VLLYGHKRLSYQT VFLALCLLWA
 ALRRTTLFSFYFRDTPRANRLGPLPFWLLYCCPVCLQFFTL TLMNLYFAQVVFKAKVKRRPEMSRGLLAVR
 GAFV GASLLFLLVNLCAVL SHRRRAQPWALLLVRVLVSDSLFVICALSLAACLCVARRAPSTSIYLEA
 KADLVNDLGNKGYLVFGLILFVWELLPTLLVGFFRVHRPPQDLSTSHILNGQVFASRSYFFDRAGHCED
 EGCSWEHSRGESTSMSGLSGSWYGAIGREPGWYGGSQTKTTPLLFSQVPGPGGHHHSLYSTPQT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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:

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 ORF: 1041 bp

Locus ID: 56834

UniProt ID: [Q96N19](#)

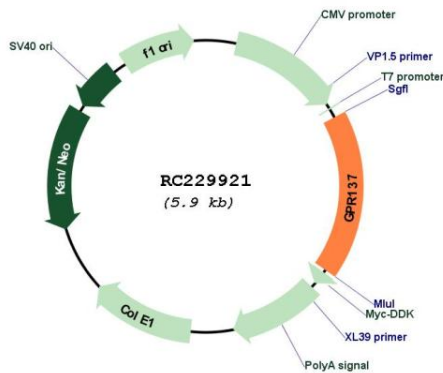
Cytogenetics: 11q13.1

Protein Families: Druggable Genome, Transmembrane

MW: 38.7 kDa

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]

Product images:



Circular map for RC229921