

Product datasheet for **MG219521**

Gpr137 (NM_001177360) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Gpr137 (NM_001177360) Mouse Tagged ORF Clone
 Tag: TurboGFP
 Symbol: Gpr137
 Synonyms: A1428855
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-AC-GFP (PS100010)
 E. coli Selection: Ampicillin (100 ug/mL)
 ORF Nucleotide Sequence: >MG219521 representing NM_001177360
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGAGTAACCTGTCTGGTCTGGTGCCTGCAGCTGGGCTGGTACCTGCACTGCCGCCTACAGTGACCC
 TGGGGCTGACCGCTGCCTACACTGCCCTATATGCTCTGCTCTTCTCTGTCTATGCCAGCTCTGGCT
 GGTGCTTCTGTATGGGCACAAGCGCCTCAGCTATCAGACAGTATCCTGGCGCTCTGTCTGCTCTGGCA
 GCCTTGCGTACCACACTTTTCTCCTTCTACTTCCGAGATACTCCAGGGCCAACCGCCTGGGGCCCTTGC
 CTTTTGGCTTCTCTATTGCTGCCTGTCTGCCTGCAGTTCTTCACACTGACGCTTATGAACCTCTACTT
 TGTGCAGGGGACCGTGTGTCAGGCAGCTGCTATAGGGGGTGCCATGGTCCTTCTCTATGCCAGCCGG
 GCCTGTTACAACCTGGCAGCTCTGGCCTTGGCCCTCGGAGCCGGCTAGATGCCTTCGATTACGACTGGT
 ACAACGTATCTGACCAGGCAGATCTGGTGAATGACCTAGGGAACAAGGCTACCTGGTGTGGTCTCAT
 CCTCTTCGTTTGGGAAGTCTGCCACCACTGCTGGTGGGCTTCTTCCGGGTACACCGGCCCCACAG
 GATCTGAGCACCAGTCAATCCTCAATGGGCAGTTTTTGGCTCCCGATCCTACTTCTTTGACGGGCTG
 GCCACTGTGAGGATGAGGGCTGCTCCTGGGAGCATAGCCGGAGTGAGAGCACCAGCATGTCCGGCAGCCT
 GGGCTCTGGCAGTTGGTATGGTGCCATCGGACGTGAGCCAGGCTGGGGAGGGGCCAGCCAGACGAGGACC
 ACTCCTCTGCTCTTCTCCAGGTGCCAGGACCTGGTAGTCACCACCACAGCCTCTATTCTACACCACAGA
 CG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG219521 representing NM_001177360
 Red=Cloning site Green=Tags(s)

MESNLSGLVPAAGLVPALPPTVTLGLTAAYTALYALLFFSVYAQLWLVLVYGHKRLSYQTVFLALCLLWA
 ALRRTTLFSFYFRDTPRANRLGPLPFWLLYCCPVCLQFFTLTLMNLYFVQGTSVCQAAAIGGAMVLLYASR
 ACYNLAALALAPRSRLDAFDYDWINVSDQADLVNDLGNKGYLVFGLILFVWELLPTLLVGFFRVHRPPQ
 DLSTSRILNGQVFGSRSYFFDRAGHCEDEGCSWEHSRSESTSMGSLGSGSWYGAIGREPWGGSQTRT
 TPLLFVQVPGPGSHHSLYSTPQT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_001177360

ORF Size: 912 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_001177360.2](#)

RefSeq Size: 1569 bp

RefSeq ORF: 915 bp

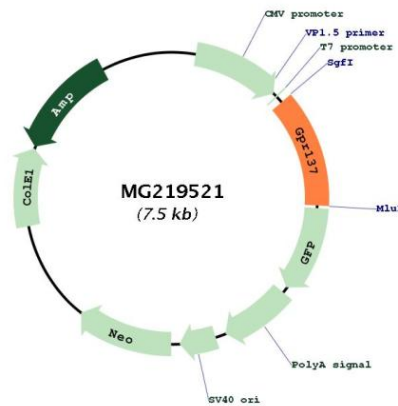
Locus ID: 107173

UniProt ID: [Q80ZU9](#)

Cytogenetics: 19 A

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

Product images:



Circular map for MG219521