

Product datasheet for MR206217

Gpr137 (NM_207220) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpr137 (NM_207220) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gpr137
Synonyms:	A1428855
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206217 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGAGTAACCTGTCTGGTCTGGTGCCTGCAGCTGGGCTGGTACCTGCACTGCCGCCTACAGTGACCC
TGGGGCTGACCGCTGCCTACACTGCCCTATATGCTCTGCTCTTCTCTGTCTATGCCAGCTCTGGCT
GGTCTTCTGTATGGGCACAAGCGCCTCAGCTATCAGACAGTATCCTGGCGCTCTGTCTGCTCTGGCA
GCCTTGCGTACCACACTTTCTCCTTCTACTTCCGAGATACTCCAGGGCCAACCGCCTGGGGCCCTTGC
CTTTTTGGCTTCTCTATTGCTGCCCTGTCTGCCTGCAGTTCTTCACACTGACGCTTATGAACCTCTACTT
TGTGCAGGTGGTGTCAAGGCCAAGGCCAAGCGTCGGCCAGAGATGAGCCGAGGCTTGTGGCTGTCCGA
GGGGCCTTCGTGGGTGCTTCACTGCTCTTTTTGCTGGTGAATGTACTGTGTGCACTGCTGTCTCGCCAGC
GCCAGGCACAGCCCTGGGTCTTCTGCTGGTACGTGTCTGGTGGAGCGACTCTCTCTTCGTATCTGTGC
CCTCTCGCTTGTGCCTGCCTCTGCCTTGTGGCCCGTCGAGCCCTTCCACCAGCATCTACTTAGAGGCC
AAGGGGACCAGCGTGTGCAGGCAGCTGCTATAGGGGGTCCATGGTCTTCTATGCCAGCCGGGCT
GTTACAACCTGGCAGCTCTGGCCTTGGCCCTCGAGCCGGCTAGATGCCTTCGATTACGACTGGTACAA
CGTATCTGACCAGGCAGATCTGGTGAATGACCTAGGGAACAAAGGCTACCTGGTGTGGTCTCATCCTC
TTCGTTTTGGAACTGCTGCCACCACATTGCTGGTGGGCTTCTTCCGGGTACACCGGCCCCACAGGATC
TGAGCACCAGTCGAATCCTCAATGGGCAGGTTTTGGCTCCCGATCCTACTTCTTTGACCGGCTGGCCA
CTGTGAGGATGAGGGCTGCTCCTGGGAGCATAGCCGGAGTGAGAGCACCAGCATGTCCGGCAGCCTGGGC
TCTGGCAGTTGGTATGGTGCCATCGGACGTGAGCCAGGCTGGGGAGGGCCAGCCAGACGAGGACCCTC
CTCTGCTCTTCTCCAGGTGCCAGGACCTGGTAGTCACCACCACAGCCTCTATTCTACACCACAGACG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR206217 protein sequence
Red=Cloning site Green=Tags(s)

MESNLSGLVPAAGLVPALPPTVTLGLTAAYTALYALLFFSVYAQLWLVLVYGHKRLSYQTVFLALCLLWA
 ALRRTTLFSFYFRDTPRANRLGPLPFWLLYCCPVCLQFFTLTLMNLYFVQVVFKAKAKRRPEMSRGLLAVR
 GAFVGSALLFLLVNLCAVLSRQRQAQPWVLLLRVRLVSDSLFVICALSLAACLCVARRAPSTSIYLEA
 KGTSVCQAAAIGGAMVLLYASRACYNLAALALAPRSRLDAFDYDWINVSDQADLVNDLGNKGYLVFGLIL
 FVWELLPTLLVGFFRVHRPPQDLSTSRLNGQVFGSRSYFFDRAGHCEDEGCSWEHSRSESTMSGSLG
 SGSWYGAIGREPGWGGASQTRTTPLLFSQVPGPGSHHSLYSTPQT

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_207220

ORF Size: 1191 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_207220.3](#)

RefSeq Size: 1845 bp

RefSeq ORF: 1191 bp

Locus ID: 107173

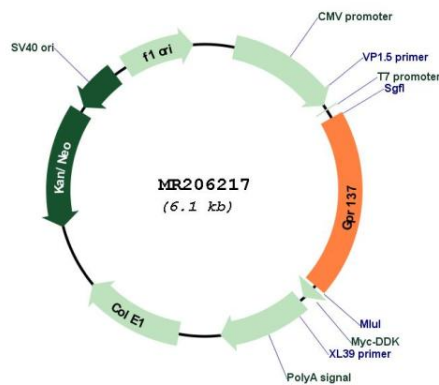
UniProt ID: [Q80ZU9](#)

Cytogenetics: 19 A

MW: 43.6 kDa

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 MR206217