

Product datasheet for **MC200041**

Gpr137b (NM_031999) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpr137b (NM_031999) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gpr137b
Synonyms:	A1788917; AU016435; AW546472; C80550; C80741; C730041E01; D13Abb1e; Tm7sf1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC003212 sequence for NM_031999
 GCGGCGGGAGGAAGTGC GGCTGTTTTCCCGGCTAGGCTCTGGAGCGGGCGGGCGCGGATGCGCGGG
 TACCCGGGAGCGAACGGCTGCGAGCCCTGATGAAGCTCGAGCAGCCCCAGCCTGATGGAGGCGCCTCCGT
 GGGAGCCGGTGC GCAATGACTCCCTGCCTCCACGCTGAGCCCCGCGGTGCCGCCCTACGTGAAGCTCGG
 CCTACCGCGGTCTACACCGTCTTCTACGCGCTCCTCTTCGTGTTTCATCTATGCGCAGCTCTGGCTGGT
 CTGGCTACCGTCAACAAGCGGCTCAGCTACCAGAGCGCTTCTCTTCCCTTTGCCTCTTCTGGCCCTCGC
 TGGCTACCGTCTACTGCTTCCCGTGTGTCTACAGTTCTTACCCTCACGCTCATGAACTTGTACTTCAGG
 CAGGTGATTTTCAAGGCCAAGTCAAATATTCTCCAGAGCTACTCAAATACCGGTTACCCCTCTACCTGG
 CCTCACTTTTTCATCAGCCTCGTTTTCTGTTGGTGAATCTGACCTGTGCTGTGCTGGTGAAGACGGGAGA
 CTGGGACAGGAAGTTATCGTCTCTGTGAGAGTGGCCATCAATGACACACTCTTTGTGCTGTGCTATC
 TCTCTCTCCATCTGCCTTACAAAATCTCCAAGATGTCCCTGGCCAACATCTACTTGGAGTCAAAGGGCT
 CATCAGTGTGTCAGGTAAGTCCATTGGTGTACCGTCTCTTGTCTACACCTCTCGGGCTGCTACAA
 CCTGTTTCTCTGCTTTTCTCAGATCAAGAAGTCCATTCTTTGATTATGACTGGTACAATGTATCC
 GACCAGGCAGATCTGAAGAGCCAGCTGGGTGACCGCGGCTACGTAGTGTGGCGTGGTCTTTTCTGTG
 GGGAGCTCCTACCCACCCTTGGTGGTTATTTCTTCCGAGTCAAGAAATCCACGAAGGATCTTACCAA
 TCTGGGATGGTCCCGCCAGCCATGGATTCAGTCCAGATCTTACTTCTTTGACAACCCCGAAGATATGAC
 AGTGATGATGACCTTGCCTGGAACATTGCCCTCAGGGACTTCAGGGAAGTTTTGCTCCAGACTACTGTG
 ATTTGGGACAACAAAATAACAGCTTCTGGCACAAGCAGGAACCTTGCATCAAGACTCCACTTTGGATCC
 AGACAAAGCAAGCCAAGGGTAGCAGCAGCTGACACAGCCCTATGGAAGAGTTCTCTGTTGAAAGCCTTCA
 GCCAGACAGCCGGATGACAGCTGAGTTGCTAAGGCAGTTTTCTTAGGAAACAGAACTCTAGTTTTTGC
 TATAGCTTCTCATGGCTCCACAGGGCTAAGCAATAATTTAGAGCAATAAACTCTTTAGTACTAGCAGAG
 AATCTGGCTATTTCAAGTGGTATAATTTAACTTATAAAAGAGTTCTGTACTTTTATAAAGATGATTT
 TATATAACTTAAATACTAATGCTAAAGTAACTAGGTTTTTCTTGGATTGTTAATTGCAACGTATGTTGT
 AGTTTGCACAGACTTTTATGCATAATTCATTTAAAACGTATAGAATACGTGGTCTAATAGTTTAAAGCT
 TTGGGAAAGTTTCCACAAATCTTACCTCTGAAGTCCCTCTTGTGAGTGCCACGTGGTGGGCTCCTTTC
 ACCGCCACTCAAGCATTCCAAGTTCAGGAGAAGCAGAGTACCATGGTCTGTACGTAACAGGCTCAACAGC
 AGCAGCAGCAGCAGCAGCAGCAGCAATTTCTCGTAACTCTGTCTAAGCCTGGTCTTCTTCTCATCT
 GAAAGCACTACTACAAGCACTCCAGTAAACAAGTGGATACTGTTAAGATGTAGTTGCTGACACTATTAAC
 CTCCTCTGCTGTGTGTA AAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_031999

Insert Size: 1158 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: [BC003212](#), [AAH03212](#)

RefSeq Size: 1993 bp

RefSeq ORF: 1158 bp

Locus ID: 83924

UniProt ID: [Q8BNQ3](#)

Cytogenetics: 13 5.24 cM

Gene Summary: Lysosomal integral membrane protein that regulates the localization and activity of mTORC1, a signaling complex promoting cell growth in response to growth factors, energy levels, and amino acids. Interacts with Rag GTPases and increases the lysosomal localization and activity of Rag GTPases and thereby regulates mTORC1 translocation and activity in lysosome. Involved in the regulation of lysosomal morphology and autophagy (By similarity). Acts also as a negative regulator of osteoclast activity (PubMed:31173907). Involved in interleukin-4-induced M2 macrophage polarization (PubMed:30595385).[UniProtKB/Swiss-Prot Function]