

Product datasheet for MC211937

Gatsl2 (NM_030719) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gatsl2 (NM_030719) Mouse Untagged Clone
Tag: Tag Free
Symbol: Gatsl2
Synonyms: 7530428J21Rik; AW742413; Gats; Gatsl1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC211937 representing NM_030719
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAAGTGCACATTCTGGAACACCGGCTGCAAGTTGCCAGCGTCGCCAAGGAGAGTATCCCGCTCTTCA
 CCTACGGCCTCATCAAACCTTGCCTTCCGTCTTCCAAGACCAGGTGCAAGTTTTTCAGTCTGACCGAGAC
 CCCTGAGGACTACACCATCATCGTAGATGAGGAGGGTTTCTTGGAGCTACCTCCTCAGAGCACCTGAGT
 GTGGCTGATGCCACCTGGCTGGCCCTGAACGTGGTGTCCGGTGGCGGCAGCTTCTCCAGCTCCCAGCCCA
 TCGGTGTGACAAAGATTGCCAAGTCTGTATTGCCCCACTCGCCGACCAGAACATCTCCGTGTTTATGCT
 GTCCACCTATCAAACCTGACTTCACTCCTGGTGGGGAGCGGGACCTGCCCTTCGTCACCTCACACCTTGCC
 TCGGAGTTCACCATCCTACGCGTTGTCAATGGAGAAACGGTGGCGGCTGAGAATCTCAGCTTCACCAATG
 GCTTTGTGAAGCCCAAGATGGTCCAGAGGCCAGTATCCACCCACTGTCTAGCCCAAGCAACAGGTTCTG
 TGTCACCAGCCTGGACCCTGACACACTGCCCGCCGTGCCACCCTTCTCATGGATGTGATGTTCTACTCC
 AATGGAGTGAAGGACCCCATGGCTGCCAGTGACGATTGTGGCCACATCCGCTTCTTCTCCTTCTCACTCA
 TTGAGGGCTACATCTCACTGGTATGGACGTACAGACCCAGAGGTTCCCGAGTCACTGCTATTCAC
 GAGTGCATCTGGAGAGCTCTGGAAGATGGTGCATAGGAGGACAACCCTGGGATTTGATGAATGTGGG
 ATTGTAGCCAGATCTCAGAGCCCTTGGCAGCTGCAGACATCCCAGCATATTACATCAGTACTTTCAAGT
 TCGACCATGCATTGGTCCAGAAGAGAATATCAGTGGGTTATCCATGCCCTGAAGGTCAGTCAAGCAGG
 GAAGCATAG

AGCGGACCGACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII
ACCN: NM_030719



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|-------------------------------|---|
| Insert Size: | 990 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: | <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_030719.3 , NP_109644.2 |
| RefSeq Size: | 4807 bp |
| RefSeq ORF: | 990 bp |
| Locus ID: | 80909 |
| UniProt ID: | Q8CAB8 |
| Cytogenetics: | 5 G2 |
| Gene Summary: | Functions as a negative regulator of the TORC1 signaling pathway through the GATOR complex. As part of homodimers or heterodimers with CASTOR1, directly binds and inhibits the GATOR subcomplex GATOR2 and thereby mTORC1. Does not directly bind arginine, but binding of arginine to CASTOR1 disrupts the interaction of CASTOR2-containing heterodimers with GATOR2 which can in turn activate mTORC1 and the TORC1 signaling pathway. [UniProtKB/Swiss-Prot Function] |