

Product datasheet for **MC201405**

Gatsl3 (NM_028022) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gatsl3 (NM_028022) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gatsl3
Synonyms:	2410008K03Rik; Castor1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC039988 sequence for NM_028022
CGCCACCGCATCGCTCCTGCCTAGGTCTCGCTGGCGGCCAGGCCGGGGCTGCCGTATCTGCGATGGAAC
TTCACATCCTAGAGCACCGGGTGCAGTACTGAGCATTGCCCGTCCGGGCCTCTGGCTCTACACCCACCC
GCTCATCAAGCTGCTTCTCCTGCCCTGTGCGAGTCGGTGCAAGTCTTACGCCTGACTGAGACTCCGGAA
GATTACACTCTCATGGTGGATGAGGAGGCTTTAAAGAGCTACCCCATCCGAGTTCCTGCAAGTGGCTG
AGGCCACATGGCTGGTATGAACGTATCTCACAGTGGCTCCGTGGTGCAGGCTGCTGGAGTAACCAAGAT
TGCCCGGTCTGTCAATGCCCGCTGGCTGAACACCATGTGTCTGTGTCTGATGTTGTCCACATAACCAGACA
GACTTCACTCTGGTACGGGAGCAGGACCTGTGTGGTATCCACACACTGGCCAGGAGTTCCAAATCT
ACCGTGAAGTAGGCGGGAGCCTGTGCCGTTACTGGAGACGATTCCAGCAATGGCTTTCCCCAGATCCA
GCACGGGCCAGTCCCACGGTGCATCCCATTAGAGCCCTCAGAACCGCTTTTGTGTCTCACACTTGAC
CCTGAGACTGCGGGTGTGCGCCACCACCTCATCGATGTCCTTCTACTCCCACAGTGTCCCAAGG
AAGCGGCCTCGGGCGGTCTGAATCAACGTCCATTCCGTTCTTCCGCTTCTCCCTCATCGAGGGTACAT
CTCCATTGTCATGGATGCAGAGATCCAGAGAAAGTTCCTCAGTGACCTCCTGCTGACCAGCTCTTCTGGG
GAGCTGTGGAGGATGGTGCATCGGGGACAGCCCTGGGCTTCGATGAATGTGGGATTGTGGCCAGA
TTGCGGGTCCCCTGGCGGCTGTTGACATCTCTGCTTACTACATCAGCACATTTCAACTTTGACCATGCGCT
GGTTCCTGAAGACGAGATCGGCTGTGTCATTGATTTCTCCAGCGAAGGCAGGAAAGCCAGGCTTCCAAG
GACCCATAGGGAAGCACCCAGACCCAGCATTCCCGTAAAGCCCCGGGGCTCCAGAACTTTTCTGAG
CTTCAGAACAAAGTCCCTGGTCTGCCAAGGGATCCTGGTCTGTGTCTGTGTCTGTCTGTGTCTGTGTGAGCT
GGGACTCGTGGCCATGCCTGGTCTGTGTCTGT
CTGCCCCAAAAAGATACCTTGGTGTCTTGGGGCTTAGATCCCCGACCAACATTTTCTATGTGACCTCAGC
AATGCACAGAGCCTGCTTGCCTGCAGCTGGAGCCGCTCTCCCCTGGCTAAGGCTCACATCCCCGGGCCG
GGCTCTGACCTCCAGCCTGCACTGCTTTCTAGCCAGATGAGTTCAGCAGTGCACCTCCCTCGCGGGACT
CCGAAGGAAGAATTAATCTCACTTTTATTTTCATGACTGTTTATATAAAATAAAGACTTGCGGATTGTG
GCCCTCTGAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: EcoRI-NotI



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ACCN:	NM_028022
Insert Size:	996 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:	BC039988 , AAH39988
RefSeq Size:	1570 bp
RefSeq ORF:	996 bp
Locus ID:	71962
UniProt ID:	Q9CWQ8
Cytogenetics:	11 A1
Gene Summary:	Functions as an intracellular arginine sensor within the amino acid-sensing branch of the TORC1 signaling pathway. As a homodimer or a heterodimer with CASTOR2, binds and inhibits the GATOR subcomplex GATOR2 and thereby mTORC1. Binding of arginine to CASTOR1 allosterically disrupts the interaction of CASTOR1-containing dimers with GATOR2 which can in turn activate mTORC1 and the TORC1 signaling pathway.[UniProtKB/Swiss-Prot Function]