

Product datasheet for **MC220410**

Galc (NM_008079) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Galc (NM_008079) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Galc
Synonyms:	2310068B06Rik; A930008M05Rik; AW212969; AW413532; Gac; Gacy; twi; twitcher
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220410 representing NM_008079
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTAACAGCCAACCTAAGGCTTCCCAGCAACGCCAAGCAAAAGTCATGACCGCCGCCGGGCTCGG
 CGAGCCGTGTTGCGGTGCCCTTATTGTTGTGTGCGCTGCTAGTGCCCGGTGGCGCTACGTGCTAGACGA
 CTCGACGGGCTGGGCCGGGAGTTCGATGGCATCGGCGCAGTCAGCGCGCGGGCAACCTCCCGGCTT
 CTAGTAAATTACCCAGAGCCCTATCGTTCTGAAATACTGGATTATCTATTTAAGCCAAACTTTGGTGCCT
 CTTTGCATATTCTAAAAGTGGAGATAGGTGGTATGGACAAACAACAGATGGCACTGAACCTCGCACAT
 GCACTATGAGCTAGATGAGAATTATTTCCGAGGCTATGAGTGGTGGCTAATGAAGGAAGTAAGAAGCGG
 AACCCAGATATTACTTATGGGTTGCCATGGTCATTCCCTGGATGGCTGGCAAGGCTTCAGCTGGC
 CTTATGTAATCTTCAGCTCACTGCCTACTATGTTGTAAGATGGATTTGGGTGCCAAGCATTATCATGA
 CCTGGACATTGATTATATTGGGATTTGGAATGAAAGCCGTTTGACGCCAACTATATAAAGGAATTAAGA
 AAAATGCTGGATTATCAAGGTCTCCAGCGAGTGAGAATCATAGCGAGCGATAATCTCTGGGAGCCGATTT
 CCTCTTCCTTGCTGCTGGACCAGGAACCTGGAAGGTGGTTGATGTTATAGGAGCTCACTATCCTGGAAC
 CTACACAGTGTGGAATGCAAAGATGTCAGGGAAGAAGCTGTGGTCATCTGAAGATTTTAGCACTATCAAC
 AGTAATGTTGGCGCAGGCTGTTGGAGTCGCATATTGAACCAGAATTACATCAATGGCAATATGACCTCCA
 CAATTGCTTGAATTTGGTGGCTAGTACTATGAAGAGTTGCCTTATGGACGAAGTGGGTTGATGACGGC
 CCAGGAGCCATGGAGTGGACATTATGTCGTAGCATCTCCTATCTGGGTATCAGCTCACACAACCCAGTTT
 ACTCAACCAGGCTGGTATTACCTGAAGACAGTGGCCACTAGAGAAAGGAGGAAGTTATGTTGCTCTGA
 CTGATGGCTTGGAAACCTCACCATCATCATTGAAACTATGAGTCATCAACATTCTATGTGTATACGGCC
 ATATCTGCCATATTATAATGTCTCACATCAGCTGGCTACCTTCACTCTAAAGGGATCTTTGAGAGAATA
 CAAGAGCTGCAGGTGTGGTATACCAAGCTGGAACTCCGACGAGAGACTTCATTTTAAACAACCTGGATA
 CTCTATGGCTCCTTGACGGCAGCGGAGTTTCACTGGAACCTGGAGGAGGACGAGATATTTACGCTCAC
 CACTCTGACCACAGGTCGAAAGGCAGCTACCCTCCCCCTCCAGCTCGAAGCCCTTCCCAACCAACTAC
 AAGGATGATTTCAATGTTGAGTACCCACTTTTTAGTGAAGCTCCGAATTTTGTGATCAGACTGGCGTGT
 TTGAGTACTACATGAATAATGAAGACCGTGAGCACCGCTTACGCTGCGCCAAGTTCTCAACCAACGACC
 TATTACCTGGGCTGCAGACGCTCCAGCACAATCAGTGTATAGGCGATCACCCTGGACCAACATGACT
 GTGCAGTGGATGTTTATATAGAGACCCCTCGGAGCGCGGCGTATTCATTGCTGGAAGAGTGAATAAAG
 GTGGAATCTTGATTAGAAGTGTACAGGAGTCTTTTTCTGGATTTTGAATGGCTCTTACAGAGTCAC
 AGCTGACCTGGTGGATGGATAACGTATGCTTCAGGACATGCGGACGTTACAGCTAAACGATGGTACACA
 CTCACCTTAGGCATTAAGGGTATTTCCGCTTTGGTATGTTGAACGGCACGATCCTATGGAAAAACGTCC
 GTGTGAAATACCCAGGCGATGGCTGGGCTGCGATCGGAACACACACCTTCGAGTTTGCAGTTTGACAA
 CTTTCGCGTGGAAAGCTGCTCG**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_008079
Insert Size: 2055 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_008079.4](#), [NP_032105.2](#)

RefSeq Size: 3826 bp

RefSeq ORF: 2055 bp

Locus ID: 14420

UniProt ID: [P54818](#)

Cytogenetics: 12 49.83 cM

Gene Summary: This gene encodes galactosylceramidase, the lysosomal hydrolase involved in the catabolism of galactosylceramide. Mutations in this gene result in slow growth, tremors and hind leg weakness, collectively termed as the 'twitcher' phenotype. In humans, deficiency of this gene product causes a lysosomal storage disorder known as Krabbe disease. [provided by RefSeq, Dec 2014]