

## Product datasheet for **SC319332**

### Mutarotase (GALM) (NM\_138801) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mutarotase (GALM) (NM_138801) Human Untagged Clone
Tag:	Tag Free
Symbol:	Mutarotase
Synonyms:	BLOCK25; GALAC4; GLAT; HEL-S-63p; IBD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_138801.1  
 CCTCTAGCTTAGCGAGCGCTGGAGTTTGAAGAGCGGGCAGTGGCTGCACACGCCAAACTT  
 TCCCTATGGCTTCGGTGACCAGGGCCGTGTTTGGAGAGCTGCCCTCGGGAGGAGGGACAG  
 TGGAGAAGTTCAGCTGCAGTCAGACCTTTGAGAGTGGACATCATCTCCTGGGGCTGCA  
 CGATCACAGCCCTAGAGGTCAAAGACAGGCAGGGGAGAGCCTCGGACGTGGTGTGGCT  
 TCGCCGAGTTGGAAGGATACCTCCAAAAGCAGCCATACTTTGGAGCAGTTATTGGGAGGG  
 TGGCCAACCGAATCGCCAAGGAACCTTCAAGGTGGATGGGAAGGAGTATCACCTGGCCA  
 TTAACAAGGAACCAACAGTCTGCATGGAGGAGTCAGAGGGTTTGATAAAGTGCTCTGGA  
 CCCCTCGGGTGTGCAATGGCGTCCAGTTCTCGCGCATCAGTCCAGATGGTGAAGAAG  
 GCTACCCCGGAGAGTTAAAAGTCTGGGTGACATACACCCTGGATGGCGGAGAGCTCATAG  
 TCAACTACAGAGCACAAGCCAGTCAGGCCACACCAGTCAACCTGACCAACCATTCTTACT  
 TCAACCTGGCAGGCCAGGCTTCCCAAATATAAATGACCATGAAGTACCATAGAAGCGG  
 ATACTTATTTGCCTGTGGATGAAACCCTGATTCTACAGGAGAAGTTGCCCCAGTGAAG  
 GCACTGCATTGACCTGAGAAAGCCAGTGGAGCTTGGAAAACACCTGCAGGACTTCCATC  
 TCAATGGTTTTGACCACAATTTCTGTCTGAAGGGATCTAAAGAAAAGCATTTTTGTGCAA  
 GGGTGCATCATGTGCAAGCGGGCGGGTACTAGAAGTATACACCACCCAGCCCGGGTCC  
 AGTTTTACACGGGCAACTTCTGGATGGCACATTAAGGGCAAGAATGGAGCTGTCTATC  
 CCAAGCACTCCGGTTTCTGCCTGGAGACTCAGAACTGGCCTGATGCAGTCAATCAGCCCC  
 GCTTCCCTCCTGTGCTGTGAGGCTGGTGAAGGATATGACCACACCACCTGGTTCAAGT  
 TTTCTGTGGCTTAAGGAAGTGTGAAGATATGATCCAGTCCAGGGCTAGGCTCAGCCACCT  
 GTCTCCTGTCCAGAAAAAGGTGAAGATTAAGAAGCTTTCAGAATGATTCTATGGATTAA  
 AATCATACAAATGGTGGCTGTTCTGAGAATCAGTCTGGGTATTGATTTCTTTCCAGTG  
 ACTGGTCCAGGCCATGTCTAATGACCAGCTCGATTCCCTGTGCAGTTCAGAGAGCAAGT  
 GAACCCAACCAACAATGTCGTCACTAAGCCCTGACCCTAGCCAGGGACTCCCATGCTGC  
 TGTGGTCCATCTCCACACTGCCTCTTTCTTTCACTTTTTGCCCTTCTTTCTTT  
 AAAGCTATTCTCACATTGCTTTTATTTCTCCTCCTTACCTCCAACCACTGTCAGCAGC  
 ACTCTGGAGTTTTCAAATGTCACATTAGCCTCACCTGCATGCTAGGAGATGGACCTGTC  
 TCTATACAGCAGTAGATGATTGATAAGTGAGGAACTGAGGCTTACAGAGTTGAAGACC  
 AACAGCTAATAAATAAAAAGTTGAGGCCGGGCACGGTGGCTCACGCCTGTAATCCCAGC  
 ACTTTGGAAGGCCGAGGCAGGCGGATCACGAGGTGAGGAGATCGAGACCATCCTGGCTAA  
 CACGGTGAACCCCGTCTCTACATAAAAAATTAGCTGGGTGTGGTAGCACGCACCCGTAG  
 TTCCAGCTACTTGGGAGGCTGAAGCAGGAGAATCGCTTGAACCTGGGAGGTGGAGTTGC  
 AGTGAGCCGAGATCATGCCACTGCACTGGGCAACAGAGCAAAACTCGATCTCAAAAAAAA  
 AAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_138801

**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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_138801.1](#), [NP\\_620156.1](#)

**RefSeq Size:** 1932 bp

**RefSeq ORF:** 1029 bp

**Locus ID:** 130589

**UniProt ID:** [Q96C23](#)

**Cytogenetics:** 2p22.1

**Domains:** Aldose\_epim

**Protein Pathways:** Glycolysis / Gluconeogenesis

**Gene Summary:** This gene encodes an enzyme that catalyzes the epimerization of hexose sugars such as glucose and galactose. The encoded protein is expressed in the cytoplasm and has a preference for galactose. The encoded protein may be required for normal galactose metabolism by maintaining the equilibrium of alpha and beta anomers of galactose.[provided by RefSeq, Mar 2009]