

Product datasheet for **RG200995**

Mutarotase (GALM) (NM_138801) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mutarotase (GALM) (NM_138801) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mutarotase
Synonyms:	BLOCK25; GALAC4; GLAT; HEL-S-63p; IBD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200995 representing NM_138801 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTCGGTGACCAGGGCCGTGTTGGAGAGCTGCCCTCGGGAGGAGGGACAGTGGAGAAGTTCAGC
TGCAGTCAGACCTCTTGAGAGTGGACATCATCTCTGGGGCTGCACGATCACAGCCCTAGAGGTCAAAGA
CAGGCAGGGGAGAGCCTCGGACGTGGTGGCTTGGCTTCCCGAGTTGGAAGGATACCTCCAAAAGCAGCCA
TACTTTGGAGCAGTTATGGGAGGGTGGCCAACCGAATCGCCAAAGAACCTTCAAGGTGGATGGGAAGG
AGTATCACCTGGCCATTAACAAGGAACCAACAGTCTGCATGGAGGAGTCAGAGGGTTTGATAAAGTGCT
CTGGACCCCTCGGGTGTGTCAAATGGCGTCCAGTTCTCGCGCATCAGTCCAGATGGTGAAGAAGGCTAC
CCCGGAGAGTTAAAAGTCTGGGTGACATACACCCTGGATGGCGGAGAGCTCATAGTCAACTACAGAGCAC
AAGCCAGTCAGGCCACACCAGTCAACCTGACCAACCATTCTTACTTCAACCTGGCAGGCCAGGCTTCCCC
AAATATAAATGACCATGAAGTCACCATAGAAGCGGATACTTATTTGCCTGTGGATGAAACCTGATTCTCT
ACAGGAGAAGTTGCCCAAGTGAAGGCACTGCATTCGACCTGAGAAAGCCAGTGGAGCTTGGAAAACACC
TGCAGGACTTCCATCTCAATGGTTTTGACCACAATTTCTGTCTGAAGGGATCTAAAGAAAAGCATTTTTG
TGCAAGGGTGCATCATGCTGCAAGCGGGCGGGTACTAGAAGTATACACCACCCAGCCCGGGTCCAGTTT
TACACGGGCAACTTCTGGATGGCACATTAAGGGCAAGAATGGAGCTGTCTATCCCAAGCACTCCGGTT
TCTGCCTGGAGACTCAGAACTGGCCTGATGCAGTCAATCAGCCCGCTTCCCTCCTGTGTCTGAGGCC
TGGTGAGGAGTATGACCACACCCTGGTTCAAGTTTTCTGTGGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200995 representing NM_138801
Red=Cloning site Green=Tags(s)

```
MASVTRAVFGELPSGGGTVEKFQLQSDLLRVDIISWGCTITALEVKDRQGRASDVVLGFAELEGYLQKQP
YFGAVIGRVANRIAKGTFKVDGKEYHLAINKEPNLSHGGVIRGFDKVLWTPRVL SNGVQFSRISPDGEEGY
PGELKVVWVYTTLDGGELIVNYRAQASQATPVNLTNHSYFNLAGQASPNINDHEVTIEADTYLPVDETLIP
TGEVAPVQGTAFDLRKPVELGKHLQDFHLNGFDHNFCLKGSKKEKHF CARVHHAASGRVLEVYTTQPGVQF
YTGNFLDGTLKGKNGAVYPKHSGF CLETQNWPD AVNQPRFPVLLRPGEEDHTTWFKFSVA
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_138801

ORF Size: 1026 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_138801.3](#)

RefSeq Size: 1932 bp

RefSeq ORF: 1029 bp

Locus ID: 130589

UniProt ID: [Q96C23](#)

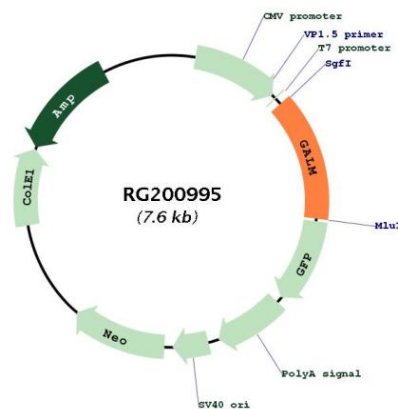
Cytogenetics: 2p22.1

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]

Product images:



Circular map for RG200995