

Product datasheet for MR205134

Galm (NM_176963) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Galm (NM_176963) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Galm
Synonyms:	A530057M15Rik; AU015645; AU020959
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205134 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTTCGGTGACCAGAACCGTGTGGAGAGCTGCCCTCGGGGGAGGGACAGTGGAGAAATCCAGC
TTCGGTCAGACCAGCTGAGTGTGGACATCATCTCATGGGGCTGCACGATCACTGCTCTGCAGGTCAAAGA
CAGGCAGGGGAAAGCCTCAGACGTGGTGTGGCTTTGCGGAATTGGAAGGTTACCTCCAGAAGCAGCCC
TACTTTGGAGCAGTGGTGGGAGGGTAGCCAACCGAATTGCCAAAGGAAGATTCCTATAGGTGGGAAGG
AGTACCACCTGCCAGTTAACAGAGAGCCCAACAGTCTCCATGGCGGATTCACGGGTTTGATAAGGTCCT
CTGGACCCCTCAGGTGTTGACCAATGGCGTCCAGTTCCTTCGAGTCAGTCCAGATGGTGAGGAAGGCTAC
CCTGGAGAGCTGAAAGTCTGGGTGACATATACCCTGGATGGTGGGGAGCTTGTAATCAACTACAGAGCAC
AGGCCAGCCAGACCCTCCAGTTAATCTGACCAACCACTTCTATTTCAACCTAGCAGGCCAGGGCTCCCC
AAATATATATGACCATGAAGTCACCAATTCGAGCAGATGCATATTTGCCCGTGGATGAAACTCTGATTCCA
ACAGGAGTCATTGCTCCAGTGAAGGAAGTGCCTTCGACCTGAGAAAGCCAGTGGAGCTTGGAAACACACC
TGCAGGATTACCACATCCATGGTTTCGACCATAATTTCTGTCTGAAGGAGTCAAAAGAAAAGAAGTTTTG
TGCAAGGGTGCCTCAGCTGCAAGTGGGAGGATCCTGGAAGTATATACCACACAACCAGGCGTCCAGTTT
TACACAGGAAACTTCTTGGATGGTACTGAAAGGCAAGAACGGTCCGGTGTATCCCAAGCACTCAGGTC
CTGCCTCGAGACCCAGAACTGGCCTGATTCGGTCAATCAGCCCAAGTTCCTCCGGCGCTGCTGAGGCC
TGGAGAGGAATACAACCACACTACCTGGTTCAAGTTCTCTGTTGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205134 protein sequence
 Red=Cloning site Green=Tags(s)

MVSVTRTVFGELPSGGGTVEKFQLRSDQLSVDIIISWGCTITALQVKDRQGKASDVVLGFAELEGYLQKQP
 YFGAVVGRVANRIAKGRFTIGGKEYHLPVNPENSLHGGFTGFDKVLWTPQVL TNGVQFFRVSPDGEEGY
 PGELKVVWVYTTLDGGELVINYRAQASQTTPVNL TNHSYFNLAGQGSNPIYDHEVTIAADAYLPVDETLIP
 TGVIAPVEGTAFDLRKPVELGTHLQDYHIHGFDFHNFCLKESKEKKFCARVRHAASGRILEVYTTQPGVQF
 YTGNFLDGTLLKGNLAVYPKHSGLCLETQNWPDSDVNPQFPFPALLRPGEEYNHTTWFKFSVA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_176963

ORF Size: 1029 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_176963.4](#)

RefSeq Size: 2245 bp

RefSeq ORF: 1029 bp

Locus ID: 319625

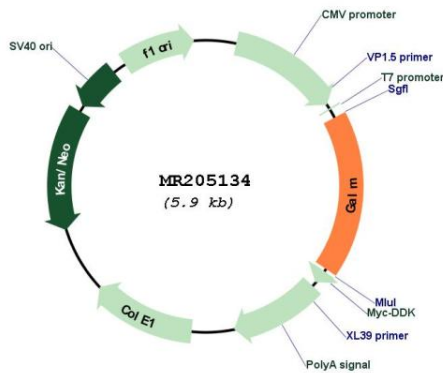
UniProt ID: [Q8K157](#)

Cytogenetics: 17 E3

MW: 37.8 kDa

Gene Summary: Mutarotase converts alpha-aldose to the beta-anomer. It is active on D-glucose, L-arabinose, D-xylose, D-galactose, maltose and lactose (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205134