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Product datasheet for MC203732

Gaa (NM_008064) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gaa (NM_008064) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gaa
Synonyms:	E430018M07Rik
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>BC010210
GCTGCCCGCTGAGCCTGGGGGTCTTCGGCCTGGAGGGTGATTGCGCAGGTGAGCTGGGCGAGCTGGTGAA
GGCTGTCTCCGGCCCCAGAGCCTCCGGAGGAGCGGCCTCCTCCAGGCAGGCAGGGCCGACTGTCAGCGAG
TTCCTGCTTTGGAGAATCGAGCAGAGACACGCGGCATAGGCCTTCAGAAGTATTCATGCTGCCCCGAACC
AACAGGCTTTCACCATGAATATACGGAAGCCCCTCTGTTCGAACTCCGTGGTTGGGGCCTGCACCCTTAT
CTCTCTGACTACAGCGGTCATCCTGGGTCATCTCATGCTTCGGGAGTTAATGCTGCTTCCCCAAGACCTT
CATGAGTCCTCTTCAGGACTGTGGAAGACGTACCGACCTCACCACCAGGAAGGTTACAAGCCAGGGCCTC
TGCACATCCAGGAGCAGACTGAACAGCCCAAAGAAGCACCCACACAGTGTGATGTGCCCCCCAGCAGCCG
CTTTGACTGTGCCCCCGACAAAGGCATCTCACAGGAGCAATGCGAGGCCCGCGGCTGCTGCTATGTCCCA
GCAGGGCAGGTGCTGAAGGAGCCGCAGATAGGGCAGCCCTGGTGTTTCTTCCCTCCCAGCTACCCAAGCT
ACCGTCTAGAGAACCTGAGCTCTACAGAGTCGGGGTACACAGCCACCCTGACCCGTACCAGCCCGACCTT
CTTCCCAAAGGATGTGCTGACCTTACAGCTGGAGGTGCTGATGGAGACAGACAGCCGCCTCCACTTCAAG
ATCAAAGATCCTGCTAGTAAGCGCTACGAAGTGCCCCTGGAGACCCCACGTGTGCTGAGCCAGGCACCAT
CCCCACTTTACAGCGTGGAATTCTCAGAGGAACCCTTTGGAGTGATCGTTCGTAGGAAGCTTGGTGGCCG
AGTGTTGCTGAACACAACCGTGGCCCCCCTGTTCTTCGCTGACCAGTTCCTGCAGCTGTCCACTTCCCTG
CCCTCCCAGCACATCACAGGCCTGGGGGAACACCTCAGCCCACTCATGCTCAGCACCGACTGGGCTCGTA
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GGCACTGGAGGACGGTGGCTTGGCTCACGGTGTCTTCTTGCTAAACAGCAATGCCATGGATGTCATCCTG
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AGCCCAAGAGCGTTGTGCAACAATACCTGGATGTTGTGGGATACCCCTTCATGCCTCCATACTGGGGCCT
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TCAACCAGGACAGCTTTGCCGACTTCCCAGACATGGTGCGGGAGCTGCACCAGGGTGGCCGGCGCTACAT
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CGGAGGGGTGTGTTCATCACCAACGAGACTGGGCAGCCGCTGATTGGGAAGGTTTGGCCCGGAACCACCG
CCTTCCCTGATTTCACCAACCCTGAGACCCTTGACTGGTGGCAGGACATGGTGTCTGAGTTCCACGCCCA
GGTGCCCTTCGATGGCATGTGGCTCGACATGAACGAACCGTCCAACTTCGTTAGAGGCTCTCAGCAGGGC
TGCCCCAACAATGAACTGGAGAACCCCCCCTATGTGCCCGGGGTGGTTGGCGGGATCTTGCAGGCAGCCA
CCATCTGTGCCTCCAGCCACCAATTCCTCTCCACACACTACAACCTCCACAACCTGTACGGCCTCACTGA
AGCTATCGCCTCCAGCAGGGCCCTGGTCAAGACTCGGGGAACACGACCCTTTGTGATCTCCCGCTCAACC
TTCTCGGGCCACGGCCGGTACGCTGGTCACTGGACAGGGGATGTGCGGAGCTCTTGGGAGCATCTTGCAT
ACTCTGTGCCAGACATCCTGCAGTTCAACCTGCTGGGCGTGCCCCTGGTCGGGGCGGACATCTGCGGCTT
CATAGGAGACACGTCAGAAGAGCTGTGTGTGCGCTGGACCCAGTTGGGGGCCTTCTACCCCTTCATGCGG
AACCACAATGACCTGAATAGCGTGCCTCAGGAGCCGTACAGGTTCAGCGAGACGGCGCAGCAGGCCATGA
GGAAGGCCTTCGCCTTACGCTATGCCCTTCTGCCCTACCTGTACACTCTCTTCCACCGCGCCCACGTCAG
AGGAGACACGGTGGCCCGGCCCCTCTTCCTGGAGTTCCCTGAGGATCCCAGCACCTGGTCTGTGGACCGC
CAGCTCTTGTGGGGGCCGGCCCTGCTCATCACACCTGTGCTTGAGCCTGGGAAAACTGAAGTGACGGGCT
ACTTCCCCAAGGGCACGTGGTACAACATGCAGGTGGTGTCAGTGGATTCCCTCGGTACTCTCCCTTCTCC
ATCATCGGCTTCATCCTTCAGATCTGCTGTCCAGAGCAAGGGGCAGTGGCTGACACTGGAAGCCCCACTG
GATACCATCAACGTGCACCTGAGGGAGGGGTACATCATACCGCTGCAGGGTCCCAGCCTCACAACCACGG
AGTCCCGAAAGCAGCCCATGGCTCTGGCTGTGGCATTAACAGCAAGCGGCGAGGCCGATGGGGAGCTGTT
CTGGGACGACGGGGAGAGCCTTGCAGTTCTGGAGCGTGGGGCCTACACACTGGTCACCTTCTCAGCCAAG
AACAATACCATTGTGAACAAGTTAGTGCGTGTGACCAAGGAGGGAGCTGAGCTACAACTGAGGGAGGTGA
CCGTCTTGGGAGTGGCCACAGCTCCTACCCAGGTCCTTTCCAACGGCATCCCTGTCTCCAATTTCACCTA
CAGCCCTGACAACAAGAGCCTGGCCATCCCTGTCTCACTGCTGATGGGAGAGCTGTTTCAAATCAGCTGG
TCCTAGGAGAGTCCGTCGTTTACAGAGGCCTCCAGGGAGGCAGAGGGAGCTTGAGCTGGCTCTGGCTGGT
GGCTCCTGTAAGGACCTGCGTCCTGCTCTCCTGACACATCTTTGAGCTTTTCCCACCGTGTTGCTGCATG
CGCCCCTGAAGCTCTGTGTTCTTAGGAGAGTGAGGCTCGCCTCACCTGCCCCACCCCAGCTGTCTGTCCC
TCACCTGGCACTAGAGAATGTGGAGCTCGGCGTGGGGACATCGTGTCTGCACCAACATCAGGCTGTGCAG
CCACTGCAGCCGCAACCCTGCAGAGACAGAGCTGGTGCCTTCACCAGGTTCCCAAGACTTGAGAAACTTA
CTGTGAAGTGTACTTACTTTTAATAAAAAGGATATTGTTTGGAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAA

Restriction Sites:	RsrII-NotI
ACCN:	NM_008064
Insert Size:	2862 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:	BC010210, AAH10210
RefSeq Size:	3504 bp
RefSeq ORF:	2862 bp
Locus ID:	14387
UniProt ID:	P70699
Cytogenetics:	11 83.35 cM
Gene Summary:	This gene encodes a lysosomal acid glucosidase that is involved in the degradation of glycogen. The encoded preproprotein undergoes proteolytic processing to generate a mature enzyme that cleaves alpha-1-4 and alpha-1-6 glycosidic bonds of glycogen, maltose and intermediate oligosaccharides within the lysosome. Mice lacking the encoded protein exhibit symptoms similar to human Pompe syndrome such as accumulation of glycogen in cardiac and skeletal muscle lysosomes resulting in reduced mobility and strength. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Nov 2015] Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein.