

Product datasheet for **RG234663**

Galactosylceramidase (GALC) (NM_001201402) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Galactosylceramidase (GALC) (NM_001201402) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Galactosylceramidase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234663 representing NM_001201402
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGGGAAGAGCCATGGTAGGGCCACTCATGGCCCTCTTCCTTTGGCGGACCTTGAATCCACCTTC
 CCTGCGTTAAAGTGCTCCACCAGGTGACGCCGGAAGAGAAGCCAGCAGCAACCTCCCGACTTCTAGTAAA
 TTACCCAGAGCCCTATCGTTCTCAGATATTGGATTATCTCTTTAAGCCGAATTTTGGTGCCTCTTTGCAT
 ATTTTAAAGTGAAATAGGTGGTATGGGCAGACAACAGACGGCACTGAGCCCTCCACATGCATTATG
 CACTAGATGAGAATTATTTCCGAGGATACGAGTGGTGGTTGATGAAAGAAGCTAAGAAGAGGAATCCCAA
 TATTACACTCATTGGGTTGCCATGGTCATTCCCTGGATGGCTGGGAAAAGGTTTCGACTGGCCTTATGTC
 AATCTTCAGCTGACTGCCTATTATGTCGTGACCTGGATTGTGGCGCCAAGCGTTACCATGATTTGGACA
 TTGATTATATTGGAATTTGGAATGAGAGGTCATATAATGCCAATTATATTAAGATATTAAGAAAAATGCT
 GAATTATCAAGGTCTCCAGCGAGTGAAAATCATAGCAAGTGATAATCTCTGGGAGTCCATCTCTGCATCC
 ATGCTCCTTGATGCCAACTCTTCAAGGTGGTTGATGTTATAGGGGCTCATTATCCTGGAACCCATTTCAG
 CAAAAGATGCAAAGTTGACTGGGAAGAAGCTTTGGTCTTCTGAAGACTTTAGCACTTTAAATAGTGACAT
 GGGTGCAGGCTGCTGGGGTCGCATTTTAAATCAGAATTATATCAATGGCTATATGACTTCCACAATCGCA
 TGGAAATTTAGTGGCTAGTTACTATGAACAGTTGCCTTATGGGAGATGCGGGTTGATGACGGCCCAGGAGC
 CATGGAGTGGGCACTACGTGGTAGAATCTCCTGTCTGGGTATCAGCTCATACCACTCAGTTTACTCAACC
 TGGCTGGTATTACCTGAAGACAGTTGGCCATTTAGAGAAAAGGAGGAAGCTACGTAGCTCTGACTGATGGC
 TTAGGGAACCTCACCATCATCATTGAAACCATGAGTCATAAACATTCTAAGTGCATACGGCCATTTCTTC
 CTTATTTCAATGTGTACAACAATTTGCCACCTTTGTTCTTAAGGGATCTTTTAGTGAAATACCAGAGCT
 ACAGGTATGGTATACCAAACCTTGAAAAACATCCGAAAGATTTCTTTTTAAGCAGCTGGATTCTCTATGG
 CTCTTGACAGCGATGGCAGTTTCACTGAGCCTGCATGAAGATGAGCTGTTACACTCACCCTCTCA
 CCACTGGTCGCAAAGGCAGCTACCCGCTTCTCCAAAATCCCAGCCCTTCCCAAGTACCTATAAGGATGA
 TTTCAATGTTGATTACCCATTTTTTAGTGAAGCTCCAACTTTGCTGATCAAACCTGGTGTATTTGAATAT
 TTTACAAATATTGAAGACCCTGGCGAGCATCACTTACGCTACGCCAAGTTCTCAACCAGAGACCCATTA
 CGTGGGCTGCCGATGCATCCAACACAATCAGTATTATAGGAGACTACAACCTGGACCAATCTGACTATAAA
 GTGTGATGTATACATAGAGACCCCTGACACAGGAGGTGTGTTTATTGCAGGAAGAGTAAATAAAGGTGGT
 ATTTTGATTAGAAGTCCAGAGGAATTTCTTCTGGATTTTTCGAAATGGATCTTACAGGGTTACAGGTG
 ATTTAGCTGGATGGATTATATGCTTTAGGACGTGTTGAAGTTACAGCAAAAAAATGGTATACACTCAC
 GTTAACTATTAAGGGTCATTTACCTCTGGCATGCTGAATGACAAGTCTCTGTGGACAGACATCCCTGTG
 AATTTTCAAAGAATGGCTGGGCTGCAATTGGAACCTCACTCTTTGAATTTGCACAGTTTACAACCTTTC
 TTGTGGAAGCCACACGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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_001201402.1](#), [NP_001188331.1](#)

RefSeq Size: 3878 bp

RefSeq ORF: 1980 bp

Locus ID: 2581

UniProt ID: [P54803](#)

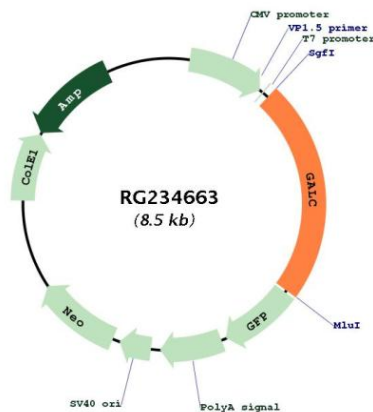
Cytogenetics: 14q31.3

Protein Families: Druggable Genome

Protein Pathways: Lysosome, Metabolic pathways, Sphingolipid metabolism

Gene Summary: This gene encodes a lysosomal protein which hydrolyzes the galactose ester bonds of galactosylceramide, galactosylsphingosine, lactosylceramide, and monogalactosyldiglyceride. Mutations in this gene have been associated with Krabbe disease, also known as globoid cell leukodystrophy. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG234663