

Product datasheet for RR214916

A3galt2 (NM_138524) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	A3galt2 (NM_138524) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	A3galt2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR214916 representing NM_138524 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCTGGAGGGACTCAGGGCCAAGAAGAGACTCCTGTGGCGACTCTTCCTGTCTGCGTTTGGTCTCC
TAGGCCTGTACCATTACTGGTTCAAGATTTTCAGGCTCTTTGAAGTGTTCCATCCCATGGGCATCTGCC
TATGGCCATCATGCCTCTGCTAAAGGACAATTTACCGGAGTGCTGCGTCACTGGGCCCGGCTGAAGTC
CTGACCTGTACCTCTTGGGGAGCCCAATTATCTGGGATGAGACCTTCGACCCACACGTAGCTGAGCGAG
AGGCGAGACGGCAGAACCTTACCATTGGACTGACTGTCTTTGCGGTAGGCAGTACCTGGAGAAGTACCT
GGAGCACTTCCTGGTATCGGCAGAGCAGTACTTCATGGTCGGCCAGAACGTGGTGTATTATGTGTTTACC
GACCGACCGGAAGCAGTGCCCCACGTGGCTCTAGGCCAGGGTCGCCTGCTGCGGGTAAACCAGTGAGAA
GAGAGAAGCGCTGGCAGGACGTGTCAATGGCTCGCATGCTCACGCTACACGAGGCTCTGGGAGGGCAGCT
GGGCCGAGAAGCTGACTATGTGTTCTGCCTGGACGTGGACCACTTCAGCGGTAACCTTCGACCCGAG
GTGCTGGCAGATTTGGTGGCACAGCTGCACGCCTGGCACTTCGCTGGCCTCGGTGGATGCTGCCCTACG
AGAGGGACAAGCGGTGGCTGCCGCGTGTGTTAAGCGAAGGCGATTTCTACTACCACGCCGCGGTGTT
CGGGGGCAGTGTGGCGGCTCTGCTCAAGCTGACGGCTCACTGTGCGACTGGCCAACAGCTGGACCGTGAG
CATGGCATTGAGGCACGCTGGCAGCAGAGGCCACCTCAACAAGTTCTTCTGGCTGAGCAAGCCACCA
AGCTGCTGTGCGCAGAGTTTGTGGGAGAGGAAATGGCTGGAGGCCAGAGATCCACCACCCTCGTCT
GATCTGGGCACCAAGGAGTACGCACTGGTGGCAACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR214916 representing NM_138524
Red=Cloning site Green=Tags(s)

MALEGLRAKKRLLWRLFSAFGLLGLYHYWFKIFRLFEVFIIPMGICPMAIMPLLKDNFTGVLRHWARPEV
 LTCTSWGAPIIWDETFDPHVAEREARRQNLTIGLTVFVAVGRYLEKYLEHFLVSAEQYFMVGQNVVYVFT
 DRPEAVPHVALGQGRLLRVKPVRRREKRWDVSMARMLTLHEALGGQLGREADYVFLDVDQYFSGNFGPE
 VLADLVAQLHAWHFRWPRWMLPYERDKRSAAALSLSEGDFYYHAAVFGGSVAALLKLTACATGQQLDRE
 HGIEARWHDESHLNKFFWLSKPTKLLSPEFCWAEIIGWRPEIHHPRLIWAPKEYALVRT

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_138524

ORF Size: 1017 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_138524.2](#), [NP_612533.1](#)

RefSeq Size: 1936 bp

RefSeq ORF: 1020 bp

Locus ID: 171553

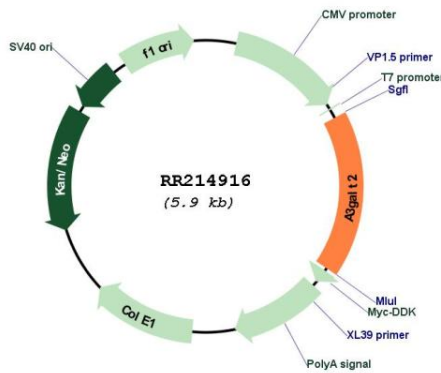
UniProt ID: [A0A4Z3](#)

Cytogenetics: 5q36

MW: 39.5 kDa

Gene Summary: UDP-galactose: beta-d-galactosyl-1,4-glucosylceramide alpha-1, 3-galactosyltransferase; involved in the synthesis of the isoglobo-series of glycosphingolipids [RGD, Feb 2006]

Product images:



Circular map for RR214916