

Product datasheet for **MR230401**

Csgalnact1 (NM_001252623) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Csgalnact1 (NM_001252623) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Csgalnact1
Synonyms:	4732435N03Rik; CSGalNAct-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR230401 representing NM_001252623
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTCCGCCCGGGCTGCTGGGGTGGATTTCTCGGGTAGTGATTCTGCTGGTGTCTCTGTTGTGCCA
 TCTCTGTCTCTACATGTTAGCCTGCACCTCCAAAAGGCGACCAGGAGCAGTTGGGACTGCCACGGGCCAA
 TGGACCCACAGGCAAAGATGGCTACCAAGCGGTGCTGCAGGAGCGCAGGAACAGCATCGTAACTATGTG
 AATAGCCTTAAACGACAGATAGCTCAGCTAAAGGATGAACTGCAGGCACGCAGTGAGCAGTTCGCGAGTG
 GGCAGGACCAGGCCAGCGATGCCACCAGCCTGCGCTCAGGCTGGGACCGTGAGCCCAAAGCCAGGCCGA
 TCTGCTGGCCTTCTGCGTGGACAGGTGGACAAGGCCGAGGTACATGCCGGTGTCAAGCTGGCCACGGAG
 TATGCTGTGTGCCTTTTGATAGCTTCACTCTGCAGAAAGTATACCAGCTGGAGACTGGCCTGACCCGCC
 ACCCTGAGGAGAAGCCAGTGAGGAAAGACAAGCGCGATGAGCTGGTAGAAGCCATCGAATCGGCCCTGGA
 GAGTCTAAACAGCCCTGTGGAGAGCAGCCACACCAGCGTCCTTACACAGCTGCAGACTTCATAGAAGGG
 ATTTACCGAACCAGGATAAAGGCACCTTTGTATGAGCTGACCTTCAAAGGGGACCACAAGCATGAAT
 TCCAGCGACTTGTCTATTTTCGACCTTTTGCCCCATCATGAAAGTGAAAAGGAAAAACTCAACCTGGC
 CAACACGCTTATCAATGTTATTGTGCCCTAGCGAGGAGGGTGGACAAGTTCGGCCTTCATGCAGAAC
 TTCAGGGAGATGTGCATCCAACAGGATGGGAGAGTTTCACTCACCGTTGTTTATTTTGGGAAAGAAGAAA
 TGAATGAAGTCAAAGGAATACTTGAACACTTCAAAGCTGCCAATTCAGAACTTCACTTTCATCCA
 ACTGAATGGAGAATCTCCCGGGGAAAGGACTGGATGTTGGAGCCCGCTTCTGGAAGGGAAGTAAACGTC
 CTGCTCTTTTCTGTGATGTAGACATCTACTTCACTCGGAGTTCCTCAACACTTGTAGGCTGAACACAC
 AGCCAGGGAAGAAGGTATTTTATCCGGTCTGTTCACTCAGTATAAACCCGGCGTAATCTACGGCCATCA
 CGATGCAGTCCCTCCGCTAGGACAGCAGCTGGTCATAAAGAAGGAAACAGGATTTTGAGAGGACTTTGGA
 TTTGGGATGACATGTCAGTACCGGTGAGACTTCATCAACATAGGTGGATTTGACCTGGACATCAAAGGCT
 GGGGTGGTGAAGATGTGCACCTGTACCGGAAATATCTCCATAGCAACCTCATAGTGGTCCGCACACCTGT
 ACGGGGACTTTTCCACCTGTGGCATGAAAAGCACTGTATGGATGAACTGACCCCTGAGCAGTACAAGATG
 TGCATGCAATCAAAGGCTATGAATGAAGCATCCCATGGGCAGCTGGGGATGCTTGTCTTCCGGCATGAAA
 TAGAGGCTCATCTCGCAAACAGAAGCAGAAAGCCAGCAGTAAAAAGACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230401 representing NM_001252623
 Red=Cloning site Green=Tags(s)

MVRRGLLGWISRVVILLVLLCCAISVL YMLACTPKGDQEQ LGLPRANGPTGKDG YQAVLQEREEQHRNYV
 NSLKRQIAQLKDELQARSEQFRSGDQASDATSLRSGWDREPKAQADLLAFLRGQVDKAEVHAGVKLATE
 YAAVPFDSFTLQKVYQLETGLTRHPEEKPVKDKRDELVEAIESALESLNSPVESSPHQRPYTAADFIEG
 IYRTERDKGTYELTFKGDHKHEFQRLVLRFPFGPIMKVKKEKLNANTLINVIVPLARRVDKFRHFMQN
 FREMCIQQDGRVHLTVVYFQKEEMNEVKGILENTSKAANFRNFTFIQLNGEF SRGKGLDVGARFWKGSNV
 LLFFCDVDIYFTSEFLNLCRLNTQPGKVFYPVLF SQYNPGVIYGHHDVPP LGQQLVIKKE TGFWRDFG
 FGMTQCQYRSDFINIGGFDLDIKGWGGEDVHLRYKYLHNSLIVVRTPV RGLFHLWHEKHCMDDEL TPEQYKM
 CMQSKAMNEASHGQLGMLVFRHEIEAHLRKQKQKASSKKT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001252623

ORF Size: 1590 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_001252623.1](#), [NP_001239552.1](#)

RefSeq Size: 4247 bp

RefSeq ORF: 1593 bp

Locus ID: 234356

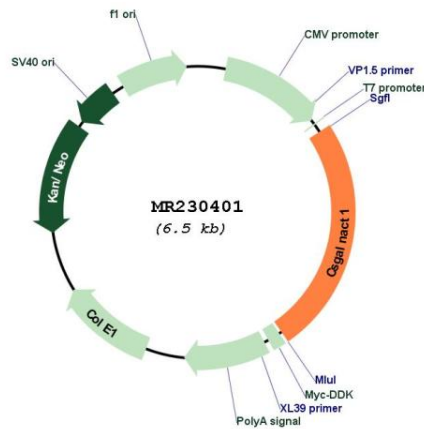
UniProt ID: [Q8BJQ9](#)

Cytogenetics: 8 B3.3

MW: 60.9 kDa

Gene Summary: Transfers 1,4-N-acetylgalactosamine (GalNAc) from UDP-GalNAc to the non-reducing end of glucuronic acid (GlcUA). Required for addition of the first GalNAc to the core tetrasaccharide linker and for elongation of chondroitin chains. Important role in chondroitin chain biosynthesis in cartilage formation, and subsequent endochondral ossification (PubMed:17145758, PubMed:21148564). Moreover, is involved in the metabolism of aggrecan (PubMed:21148564).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR230401