

Product datasheet for **MC228190**

Csgalnact1 (NM_001252623) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >MC228190 representing NM_001252623
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTCCGCCCGGGCTGCTGGGGTGGATTCTCGGGTAGTGATTCTGCTGGTGTCTCTGTTGTGCCA
 TCTCTGTCTCTACATGTTAGCCTGCACTCCAAAAGGCGACCAGGAGCAGTTGGGACTGCCACGGGCCAA
 TGGACCCACAGGCAAAGATGGCTACCAAGCGGTGCTGCAGGAGCGGAGGAACAGCATCGTAACTATGTG
 AATAGCCTTAAACGACAGATAGCTCAGCTAAAGGATGAACTGCAGGCACGCAGTGAGCAGTCCGCAGTG
 GGCAGGACCAGGCCAGCGATGCCACCAGCCTGCGCTCAGGCTGGGACCGTGAGCCCAAAGCCAGGCCGA
 TCTGCTGGCCTTCTGCGTGGACAGGTGGACAAGGCCGAGGTACATGCCGGTGTCAAGCTGGCCACGGAG
 TATGCTGTGTGCCTTTTGATAGCTTCACTCTGCAGAAAGTATACCAGCTGGAGACTGGCCTGACCCGCC
 ACCCTGAGGAGAAGCCAGTGAGGAAAGACAAGCGCGATGAGCTGGTAGAAGCCATCGAATCGGCCCTGGA
 GAGTCTAAACAGCCCTGTGGAGAGCAGCCACACCAGCGTCCTTACACAGCTGCAGACTTCATAGAAGGG
 ATTTACCGAACCAGGATAAAGGCACCTTTGTATGAGCTGACCTTCAAAGGGGACCACAAGCATGAAT
 TCCAGCGACTTGTCTATTTTCGACCTTTTGGCCCCATCATGAAAGTGAAAAGGAAAAACTCAACCTGGC
 CAACACGCTTATCAATGTTATTGTGCCCTAGCGAGGAGGGTGGACAAGTCCGGCACTTCATGCAGAAC
 TTCAGGGAGATGTGCATCCAACAGGATGGGAGAGTTTCACTCACCGTTGTTTATTTTGGGAAAGAAGAAA
 TGAATGAAGTCAAAGGAATACTTGAACAACCTTCAAAGCTGCCAATTTTCAAGAACTTCACTTCATCCA
 ACTGAATGGAGAATCTCCCGGGGAAAGGGACTGGATGTTGGAGCCCGCTTCTGGAAGGGAAGTAACGTC
 CTGCTCTTTTCTGTGATGTAGACATCTACTTCACCTCGGAGTTCCTCAACACTTGTAGGCTGAACACAC
 AGCCAGGGAAGAAGGTATTTTATCCGGTCTGTTCACTCAGTCAAGTATAACCCCGCGTAATCTACGGCCATCA
 CGATGCAGTCCCTCCGCTAGGACAGCAGCTGGTCAAAAGAAGGAAACAGGATTTTGGAGGGACTTTGGA
 TTTGGGATGACATGTCAGTACCGGTGAGACTTCATCAACATAGGTGGATTTGACCTGGACATCAAAGGCT
 GGGGTGGTGAAGATGTGCACCTGTACCGGAAATATCTCCATAGCAACCTCATAGTGGTCCGCACACCTGT
 ACGGGGACTTTTCCACCTGTGGCATGAAAAGCACTGTATGGATGAACTGACCCCTGAGCAGTACAAGATG
 TGCATGCAATCAAAGGCTATGAATGAAGCATCCCATGGGCAGCTGGGGATGCTTGTCTTCCGGCATGAAA
 TAGAGGCTCATCTCGCAAACAGAAAGCAGAAAGCCAGCAGTAAAAAGACATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001252623

Insert Size: 1593 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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

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]

Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.