

Product datasheet for **RC219296**

CSGALNACT1 (NM_018371) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CSGALNACT1 (NM_018371) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CSGALNACT1
Synonyms:	beta4GalNAct; ChGn; ChGn-1; CSGalNAct-1; SDJLABA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC219296 representing NM_018371
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGATGATGGTTCGCGGGGGCTGCTTGCCTGGATTTCCGGGTGGTGGTTTTGCTGGTGCTCCTCTGCT
 GTGCTATCTCTGTCTGTACATGTTGGCCTGCACCCCAAAGGTGACGAGGAGCAGCTGGCACTGCCAG
 GGCCAACAGCCCCACGGGAAGGAGGGGTACCAGGCCGTCCTTCAGGAGTGGGAGGAGCAGCACCACAAC
 TACGTGAGCAGCCTGAAGCGGCAGATCGCACAGCTCAAGGAGGAGCTGCAGGAGAGGAGTGAAGCAGCTCA
 GGAATGGGCAGTACCAAGCCAGCGATGCTGCTGGCCTGGGTCTGGACAGGAGCCCCCAGAGAAAACCCA
 GGCCGACCTCCTGGCCTTCTGCACTCGCAGGTGGACAAGGCAGAGGTGAATGCTGGCGTCAAGCTGGCC
 ACAGAGTATGCAGCAGTGCCTTCGATAGCTTTACTCTACAGAAGGTGTACCAGCTGGAGACTGGCCTTA
 CCCGCCACCCGAGGAGAAGCCTGTGAGGAAGGACAAGCGGGATGAGTTGGTGAAGCCATTGAATCAGC
 CTTGGAGACCCTGAACAATCCTGCAGAGAACAGCCCCAATCACCGTCCTTACACGGCCTCTGATTTATA
 GAAGGGATCTACCGAACAGAAAGGGACAAGGGACATTGTATGAGCTCACCTCAAAGGGGACCACAAC
 ACGAATTCAAACGGCTCATCTTATTTCCGACCATTACGCCCATCATGAAAGTGAATAATGAAAAGCTCAA
 CATGGCCAACACGCTTATCAATGTTATCGTGCCTTAGCAAAAAGGGTGGACAAGTTCGGCAGTTCATG
 CAGAATTCAGGGAGATGTCATTGAGCAGGATGGGAGAGTCCATCTCACTGTTGTTTACTTTGGGAAAG
 AAGAAATAATGAAGTCAAAGGAATACTTGAAAACACTTCAAAGCTGCCAATTCAGGAACCTTACCTT
 CATCCAGCTGAATGGAGAATTTCTCGGGGAAAGGACTTGATGTTGGAGCCCGTTCTGGAAGGGAAGC
 AACGTCCTTCTCTTTTCTGTGATGTGGACATCTACTTACATCTGAATTCCTCAATACGTGTAGGCTGA
 ATACACAGCCAGGAAGAAGGTATTTTATCCAGTTCTTTTCAGTCAGTACAATCCTGGCATAATATACGG
 CCACCATGATGCAGTCCCTCCCTTGAACAGCAGCTGGTCATAAAGAAGGAAACTGGATTTTGGAGAGAC
 TTTGGATTTGGGATGACGTGTCAGTATCGGTGAGACTTCAATATAGGTGGGTTTGTCTGGACATCA
 AAGGCTGGGGCGGAGAGGATGTGCACCTTTATCGCAAGTATCTCCACAGCAACCTCATAGTGGTACGGAC
 GCCTGTGCGAGGACTCTCCACCTCTGGCATGAGAAGCGCTGCATGGACGAGCTGACCCCGAGCAGTAC
 AAGATGTGCATGCAGTCCAAGGCCATGAACGAGGCATCCACGGCCAGCTGGGCATGCTGGTGTTCAGGC
 ACGAGATAGAGGCTCACCTTCGCAAACAGAAACAGAAGACAAGTAGCAAAAAACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC219296 representing NM_018371
 Red=Cloning site Green=Tags(s)

MMVRRGLLAWISRVVLLVLLCCAIISVLYMLACTPKGDDEEQLALPRANSPTGKEGYQAVLQEWEEQHRN
 YVSSLKRQIAQLKEELQERSEQLRNGQYQASDAAGLGLDRSPPEKTQADLLAFLHSQVDKAEVNAGVKLA
 TEYA AVPFDSFTLQKVYQLETGLTRHPEEKPVKDKRDELVEAIESALETLNPAENSPNHRPYTASDFI
 EGIYRTERDKGTYELTFKGDHKHEFKRLILFRPFSPIMKVKNEKLNMANLINVIVPLAKRVDKFRQFM
 QNFREMCIEQDGRVHLTVVYFGKEEINEVKGILENTSKAANFRNFTFIQLNGEFSRKGKLDVGARFWKGS
 NVLLFFCDVDIYFTSEFLNLCRLNTQPGKKVFYPVLFVFSQYNPGIYGHHDVPPLEQQLVIKKETGFWRD
 FFGMTCQYRSDFINIGGFDLDIKGGWGEDVHL YRKYLSNLIVVTRTPVRGLFHLWHEKRCMDEL TPEQY
 KMCMQSKAMNEASHGQLGMLVFRHEIEAHLRKQKQKTSKKT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_018371

ORF Size: 1596 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_018371.3](#), [NP_060841.3](#)

RefSeq Size: 3877 bp

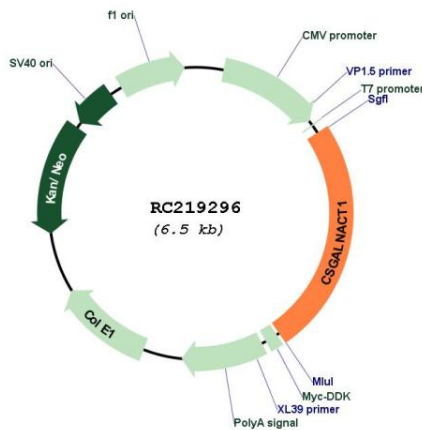
RefSeq ORF: 1599 bp

Locus ID: 55790

UniProt ID: [Q8TDX6](#)

Cytogenetics: 8p21.3
Protein Families: Transmembrane
Protein Pathways: Chondroitin sulfate biosynthesis, Metabolic pathways
MW: 61.1 kDa
Gene Summary: This gene encodes an enzyme that transfers N-acetylglucosamine (GalNAc) to the core tetrasaccharide linker and to elongating chondroitin sulfate chains in proteoglycans. Knockout of the orthologous mouse gene indicates that the protein is necessary for normal cartilage development and aggrecan metabolism. Mutations in this gene are associated with multiple sclerosis progression, and with mild skeletal dysplasia and joint laxity. [provided by RefSeq, Aug 2017]

Product images:



Circular map for RC219296