

Product datasheet for **SC326038**

CSGALNACT1 (NM_001130518) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CSGALNACT1 (NM_001130518) Human Untagged Clone
Tag:	Tag Free
Symbol:	CSGALNACT1
Synonyms:	beta4GalNAcT; ChGn; ChGn-1; CSGalNAcT-1; SDJLABA
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001130518, the custom clone sequence may differ by one or more nucleotides

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ATGATGATGGTTCGCCGGGGCTGCTTGCCTGGATTTCGCCGGTGGTGGTTTTGCTGGT
CTCCTCTGCTGTGCTATCTGTCTGTACATGTTGGCCTGCACCCAAAAGGTGACGAG
GAGCAGCTGGCACTGCCAGGGCAACAGCCCCACGGGAAGGAGGGGTACCAGGCCGTC
CTTCAGGAGTGGGAGGAGCAGCACCCTACTGAGCAGCCTGAAGCGGCAGATCGCA
CAGCTCAAGGAGGAGCTGCAGGAGAGGAGTGCAGCTCAGGAATGGGCAGTACCAAGCC
AGCGATGCTGCTGGCCTGGTCTGGACAGGAGCCCCAGAGAAAACCCAGGCCGACCTC
CTGGCCTTCTGCACTCGCAGGTGGACAAGGCAGAGGTGAATGCTGGCGTCAAGTGGCC
ACAGAGTATGCAGCAGTGCCCTTCGATAGCTTTACTCTACAGAAGGTGTACCAGCTGGAG
ACTGGCCTTACCCGCCACCCGAGGAGAAGCCTGTGAGGAAGGACAAGCGGGATGAGTTG
GTGGAAGCCATTGAATCAGCCTTGAGACCCTGAACAGTCTGCAGAGAACAGCCCAAT
CACCGTCTTACACGGCCTCTGATTTTATAGAAGGGATCTACCGAACAGAAAGGGACAAA
GGGACATTGTATGAGCTCACCTTCAAAGGGACCACAAACACGAATCAAACGGCTCATC
TTATTTTCGACCATTTCGGCCCCATCATGAAAGTAAAAATGAAAAGCTCAACATGGCCAAC
ACGCTTATCAATGTTATCGTGCCTTAGCAAAAAGGGTGGACAAGTCCGGCAGTTCATG
CAGAATTTAGGGAGATGTGCATTGAGCAGGATGGGAGAGTCCATCTCACTGTTGTTTAC
TTTGGGAAAGAAGAAATAAATGAAGTCAAAGGAATACTTGAAAACACTTCAAAGCTGCC
AACTTCAGGAACCTTACCTTCATCCAGCTGAATGGAGAATTTTCTCGGGAAAGGACTT
GATGTTGGAGCCCGCTTCTGGAAGGGAAGCAACGTCTTCTTTTTCTGTGATGTGGAC
ATCTACTTCACATCTGAATTCCTCAATACGTGTAGGCTGAATACACAGCCAGGGAAGAAG
GTATTTTATCCAGTCTTTTCAGTCAGTACAATCCTGGCATAATATACGGCCACCATGAT
GCAGTCCCTCCCTTGGAACAGCAGCTGGTCATAAAGAAGGAACTGGATTTTGGAGAGAC
TTTGGATTTGGGATGACGTGTCAGTATCGGTGAGACTTCAATATAGGTGGGTTTGTAT
CTGGACATCAAAGGCTGGGGCGGAGAGGATGTGCACCTTTATCGCAAGTATCTCCACAGC
AACCTCATAGTGTACGGACGCCTGTGCGAGGACTCTTCCACCTCTGGCATGAGAAGCGC
TGCATGGACGAGCTGACCCCGAGCAGTACAAGATGTGCATGCAGTCCAAGGCCATGAAC
GAGGCATCCCACGGCCAGCTGGGCATGCTGGTGTTCAGGCACGAGATAGAGGCTCACCTT
CGCAAACAGAAACAGAAGACAAGTAGCAAAAAACA

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Restriction Sites: Please inquire



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ACCN:	NM_001130518
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none">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_001130518.1 , NP_001123990.1
RefSeq Size:	4299 bp
RefSeq ORF:	1599 bp
Locus ID:	55790
UniProt ID:	Q8TDX6
Cytogenetics:	8p21.3
Protein Families:	Transmembrane
Protein Pathways:	Chondroitin sulfate biosynthesis, Metabolic pathways

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]

Transcript Variant: This variant (1) encodes the supported protein. Variants 1, 2 and 4 through 23 all encode the same protein.