

Product datasheet for **SC313890**

CSGALNACT1 (NM_018371) Human Untagged Clone

Product data:

| | |
|----------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | CSGALNACT1 (NM_018371) 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_018371, the custom clone sequence may differ by one or more nucleotides |

```

ATGATGATGGTTCGCCGGGGCTGCTTGCCTGGATTCCCGGGTGGTGGTTTTGCTGGT
CTCCTCTGCTGTGCTATCTGTCTGTACATGTTGGCCTGCACCCAAAAGGTGACGAG
GAGCAGCTGGCACTGCCAGGGCCAACAGCCCCACGGGAAGGAGGGGTACCAGGCCGTC
TTTCAGGAGTGGGAGGAGCAGCACCCTACTGAGCAGCCTGAAGCGGCAGATCGCA
CAGCTCAAGGAGGAGCTGCAGGAGAGGAGTGCAGCTCAGGAATGGGCAGTACCAAGCC
AGCGATGCTGCTGGCCTGGTCTGGACAGGAGCCCCCAGAGAAAACCCAGGCCGACCTC
CTGGCCTTCTGCACTCGCAGGTGGACAAGGCAGAGGTGAATGCTGGCGTCAAGTGGCC
ACAGAGTATGCAGCAGTGCCTTTTCGATAGCTTTACTCTACAGAAGGTGTACCAGCTGGAG
ACTGGCCTTACCCGCCACCCCGAGGAGAAGCCTGTGAGGAAGGACAAGCGGGATGAGTTG
GTGGAAGCCATTGAATCAGCCTTGGAGACCCTGAACAATCCTGCAGAGAACAGCCCAAT
CACCGTCTTACACGGCCTCTGATTTTATAGAAGGGATCTACCGAACAGAAAGGGACAAA
GGGACATTGTATGAGCTCACCTTCAAAGGGGACCACAAACACGAATCAAACGGCTCATC
TTATTTTCGACCATTACGCCCCATCATGAAAGTAAAAATGAAAAGCTCAACATGGCCAAC
ACGCTTATCAATGTTATCGTGCCTTAGCAAAAAGGGTGGACAAGTCCGGCAGTTCATG
CAGAATTTTCAGGGAGATGTGCATTGAGCAGGATGGGAGAGTCCATCTCACTGTTGTTAC
TTTGGGAAAGAAGAAATAAATGAAGTCAAAGGAATACTTGAAAACACTTCAAAGCTGCC
AACTTCAGGAACCTTACCTTCCAGCTGAATGGAGAATTTTCTCGGGGAAAGGACTT
GATGTTGGAGCCCGCTTCTGGAAGGGAAGCAACGTCTTCTTTTTCTGTGATGTGGAC
ATCTACTTCACATCTGAATTCCTCAATACGTGTAGGCTGAATACACAGCCAGGGAAGAAG
GTATTTTATCCAGTCTTTTTCAGTCAGTACAATCCTGGCATAATATACGGCCACCATGAT
GCAGTCCCTCCCTTGGAACAGCAGCTGGTCATAAAGAAGGAACTGGATTTTGGAGAGAC
TTTGGATTTGGGATGACGTGTCAGTATCGGTGAGACTTCAATATAGGTGGGTTTGTAT
CTGGACATCAAAGGCTGGGGCGGAGAGGATGTGCACCTTTATCGCAAGTATCTCCACAGC
AACCTCATAGTGTACGGACGCCTGTGCGAGGACTCTTCCACCTCTGGCATGAGAAGCGC
TGCATGGACGAGCTGACCCCGAGCAGTACAAGATGTGCATGCAGTCCAAGGCCATGAAC
GAGGCATCCCACGGCCAGCTGGGCATGCTGGTGTTCAGGCACGAGATAGAGGCTCACCTT
CGCAAACAGAAACAGAAGACAAGTAGCAAAAAACA

```

Restriction Sites: Please inquire



[View online >](#)

| | |
|-------------------------------|---|
| ACCN: | NM_018371 |
| 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: | 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: | <u>NM_018371.3</u> , <u>NP_060841.3</u> |
| RefSeq Size: | 3877 bp |
| RefSeq ORF: | 1599 bp |
| Locus ID: | 55790 |
| UniProt ID: | <u>Q8TDX6</u> |
| Cytogenetics: | 8p21.3 |
| Protein Families: | Transmembrane |
| Protein Pathways: | Chondroitin sulfate biosynthesis, Metabolic pathways |
| Gene Summary: | <p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 4 through 23 all encode the same protein.</p> |