

## Product datasheet for **RG203037**

### CHST11 (NM\_018413) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CHST11 (NM_018413) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CHST11
Synonyms:	C4ST; C4ST-1; C4ST1; HSA269537; OCBMD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203037 representing NM_018413 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGCCAGCGCTGCTGGAAGTGATGAGGATGAACAGAATCTGCCGGATGGTGCTGGCCACTTGCTTGG  
GATCCTTTATCCTGGTCATCTTCTATTTCCAAAGTATGTTGCACCCAGTCATGCGGAGGAATCCCTTTGG  
TGTGGACATCTGCTGCCGAAGGGTCCCAGGCCCTGCAGGAAGTCTACAACCAATCCAGCTGGAG  
CTCTCAAACACTGCTGTCTGCACAGATGCGGGGACCAGGTGACAGACACGTGCCGAGCCAACAGCG  
CCACAAGCCGTAAGCGGAGGGTGTGACCCCAACGACCTGAAGCACTTGGTGGTGGATGAGGACCACGA  
GCTCATCTACTGCTACGTGCCCAAGGTGGCCTGCACCACTGGAAGCGGCTCATGATGGTCTGACCGGG  
CGGGGGAAGTACAGCGACCCATGGAGATCCCAGCAACGAGGCACACGTCTCCGCAACCTGAAGACCC  
TGAACCACTACAGCATCCAGAAATCAACCACCGCTTGAAAAGCTACATGAAGTTCCTGTTTGTCCGGGA  
GCCCTTCGAGAGGCTAGTGTCCGCCTACCGCAACAAGTTCACCCAGAAGTACAACATCTCCTTCCACAAG  
CGGTACGGCACCAGATCATCAAACGCCAGCGGAAGAACGCCACCCAGGAGGCCCTGCGCAAAGGGGACG  
ATGTCAAATTCGAGGAGTTTGTGGCCTATCTCATCGACCCACACACCCAGCGGGAGGAGCCTTTCAACGA  
ACACTGGCAAACCGTCTACTCACTCTGCCATCCCTGCCACATCCACTATGACCTCGTGGGCAAGTACGAG  
ACACTGGAAGAGGATTCTAATTACGTCCTGCAGTGGCAGGAGTGGCAGCTACCTGAAGTTCACCACT  
ATGCAAAGTCTACGAGAAGTACTGATGAAATGACCACAGAATTCTTCCAGAACATCAGCTCAGAGCACCA  
AACGCAGCTGTACGAAGTCTACAAACTCGATTTTTTAATGTTCAATTACTCAGTGCCAAGCTACCTGAAA  
TTGGAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG203037 representing NM\_018413  
Red=Cloning site Green=Tags(s)

MKPALLEVMRMNRI CRMVLATCLGSFILVIFYFQSM LHPVMRRNPF GVDICCRKGSRSPLQELYNPIQLE  
 LSNTAVLHQMRDQVTDTCRANSATSRKRRLVLPNDLKHLLVDEDEL IYCYVPKVACTNWKRLMMVLTG  
 RGKYS DPMEIPANEAHVSANL KTLNQYSIPEINHRLKSYMKFLFVREPFERLVSAYRNKFTQKYNISFHK  
 RYGTKI IKRQRKNATQEALRKGGDDVKFE EFVAYLIDPHTQREEPFNEHWQTVVYSLCHPCHIHYDLVGKYE  
 TLEEDSNVYLQLAGVGSYLKFP TYAKSTRTTDEMTTEFFQNISSEHQTLYEYKLDFLMFNYSVPSYLK  
 LE

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_018413

**ORF Size:** 1056 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\\_018413.6](#)

**RefSeq Size:** 1687 bp

**RefSeq ORF:** 1059 bp

**Locus ID:** 50515

**UniProt ID:** [Q9NPF2](#)

**Cytogenetics:** 12q23.3

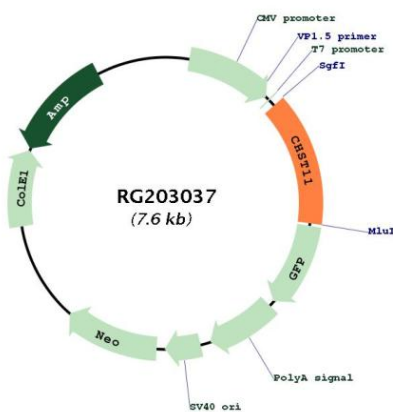
**Domains:** Sulfotransfer2

**Protein Families:** Transmembrane

**Protein Pathways:** Chondroitin sulfate biosynthesis, Sulfur metabolism

**Gene Summary:** The protein encoded by this gene belongs to the sulfotransferase 2 family. It is localized to the golgi membrane, and catalyzes the transfer of sulfate to position 4 of the N-acetylgalactosamine (GalNAc) residue of chondroitin. Chondroitin sulfate constitutes the predominant proteoglycan present in cartilage, and is distributed on the surfaces of many cells and extracellular matrices. A chromosomal translocation involving this gene and IgH, t(12;14)(q23;q32), has been reported in a patient with B-cell chronic lymphocytic leukemia. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2011]

**Product images:**



Circular map for RG203037