

## Product datasheet for **RG210377**

### CHST6 (NM\_021615) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CHST6 (NM_021615) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CHST6
Synonyms:	C-GlcNAc6ST; glcNAc6ST-5; gn6st-5; GST4-beta; hCGn6ST; MCDC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210377 representing NM_021615 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGGCTGCCGCGCTCTCCAGCACAGCAGTGACCGCGCTCCTCTGGCGCAGACCTTCTCTCTCTCT  
TTCTGGTTCCCGGCCAGGGCCCTCGTCCCAGCAGGCGCGAGGCGCGTGCATGTGCTGGTGTCTGTC  
CTCGTGGCGCTCGGGCTCGTCTTCGTGGGCCAACTCTCAACCAGCACCCCGACGTCTTCTACCTAATG  
GAGCCCGCTGGCACGTGTGGACCACCTGTGCGAGGCGAGCCGCAACGCTGCACATGGCTGTGCGCG  
ACCTGGTGGCTCCGTCTTCTGTGCGACATGGACGTGTTTGATGCCTATCTGCCTTGGCGCCGCAACCT  
GTCCGACCTTCCAGTGGGCCGTGAGCCGTGCACTGTGCTCGCCACCCGCTGCAGTGCCTTCCCGCA  
GGCGCCATCAGCAGCGAGGCCGTGTGCAAGCCACTGTGCGCGCGGAGTCCCTCACCCCTGGCCCGGAGG  
CCTGCCGCTCTACAGCCACGTGGTGTCAAGGAGGTGCGCTTCTCAACCTGCAGGTGCTTACCCGCT  
GCTCAGCGACCCCGCTCAACCTACGCATCGTGACCTGGTGGCGGACCCCGGGCCGTGCTGCGCTCC  
CGGAGCAGACAGCAAGGCTCTGGCGCGTGACAACGGCATCGTGTGGGACCAACGGCACGTGGGTGG  
AGGCCGACCCCGCTGCGCGTGGTGGCGAGGTGTGCCGTAGCCACGTACGCATCGCCGAGGCCGCCAC  
ACTCAAGCCGCCACCCTTCTGCGCGGCCGCTACCGCTGGTGGCTTCGAGGACCTGGCGGGAGCCG  
CTGGCAGAAATCCGTGCGCTCTACGCCTCACTGGGCTCAGTCTACGCCACAGCTCGAGGCTGGATCC  
ATAACATCACCCACGGATCTGGACCTGGTGGCGCGCCGGAAGCCTTCAAGACTTCGTCCAGGAATGCGCT  
CAACGTCTCCAGGCTGGCGCCATGCGCTGCCCTTTGCCAAGATCCCGCGGTGCAAGAACTGTGCGCT  
GGTGGCTGCAGCTGCTGGGCTACCGCCGTGTACTCTGAGGACGAGCAGCGCAACCTCGCCCTTGATC  
TGGTGCTGCCACGAGGCTGAACGGCTTCACTGGGCATCATCCACCGCTCGCACCCCGAAAT

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTAA



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**Protein Sequence:** >RG210377 representing NM\_021615  
Red=Cloning site Green=Tags(s)

```
MWLPRVSSSTAVTALLLAQTFLLLFLVSRPGPSSPAGGEARVHVLVLSSWRSGSSFVQQLFNQHPDVFYLM
EPAWHVWTTLSQGSAA TLHMAVRDLVRSVFLCDMDVFDAYLPWRRNLSDLFQWAVSRALCSPACSAFPR
GAISSAEVCKPLCARQSF TLAREACRSYSHVVLKEVRFNLQVL YPLLSDPALNLRIVHLVRDPRAVLR
REQTAKALARDNGIVLGTNGTWVEADPGLRVVREVC RSHVRIAE AATLKPPPFLRGRYRLVRFEDLAREP
LAEIRALYAFTGLSLTPQLEAWIHNI THGSGPGARREAFK TSSRNALNVSQAWRHALPFAKIRRVQELCA
GALQLLGYRPVYSEDEQRNLALDLVLPRLNGFTWASSTASHPRN
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_021615

**ORF Size:** 1185 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\\_021615.5](#)

**RefSeq Size:** 6885 bp

**RefSeq ORF:** 1188 bp

**Locus ID:** 4166

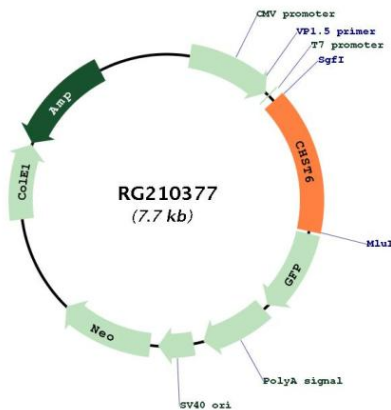
**UniProt ID:** [Q9GZX3](#)

**Cytogenetics:** 16q23.1

**Protein Pathways:** Keratan sulfate biosynthesis, Metabolic pathways

**Gene Summary:** The protein encoded by this gene is an enzyme that catalyzes the transfer of a sulfate group to the GlcNAc residues of keratan. Keratan sulfate helps maintain corneal transparency. Defects in this gene are a cause of macular corneal dystrophy (MCD). [provided by RefSeq, Jan 2010]

## Product images:



Circular map for RG210377