

Product datasheet for **RG225689**

CHST8 (NM_001127895) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHST8 (NM_001127895) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CHST8
Synonyms:	GalNAc4ST; GALNAC4ST1; PSS3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG225689 representing NM_001127895 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACCCTGCGACCTGGAACAATGCGGCTGGCCTGCATGTTCTCTTCCATCCTGCTGTTCCGAGCTGCAG
 GCCTCCTCCTTTCATCAGCCTGCAGGACCCTACGGAGCTCGCCCCCAGCAGGTGCCAGGAATAAAGTT
 CAACATCAGGCCAAGGCAGCCCCACCACGACCTCCACCAGGCGGCTCCAGGATGGTGACTTGAAGGAA
 CCCACAGAGAGGGTCACTCGGGACTTATCCAGTGGGGCCCCGAGGGGCCCAACCTGCCAGCGCCTGACC
 AGCCTCAACCCCGCTGCAGAGGGGAACCGTCTGCGGCTCCGCCAGCGCCGTCGCCGTCTGCTCATCAA
 GAAATGCCAGCTGCGGCGACCATCCCGGCCAACAGCTCGGACGCGCCCTTCATCCGGCCGGGACCCGGG
 ACGCTGGATGGCCGCTGGGTGAGCTGCACCGGAGCCAGCAGGAGCGCAAGCGGGTGATGCAGGAGCGCT
 GCGCCAAGTACCGGGCGAGCAGCAGCCGCGGGCCGTCACGCCCGCCACGTGTCCCGTATCTTCGTGGA
 GGACCGCCACCGCTGCTCTACTGCGAGGTGCCAAGGCCGGCTGCTCCAATTGGAAGCGGGTGCTCATG
 GTGCTGGCCGGCCTGGCCTCGTCCACTGCCGACATCCAGCACAACACCGTCCACTATGGCAGCGCTCTCA
 AGCGCCTGGACACCTTCGACCGCCAGGGTATCTTGACCGTCTCAGCACCTACCAAGATGCTCTTTGT
 CCGCGAGCCCTTCGAGAGGCTGGTGTCCGCCTTCCGCGACAAGTTTGAGCACCCCAACAGCTACTATCAC
 CCGGTCTTCGGAAGGCCATCTGGCCCGGTACCGCGCCAATGCCTCTCGGGAGGCCCTGCGGACCGGCT
 CTGGGGTGCGTTTTCCCGAGTTCTGTCCAGTACCTGCTGGACGTGCACCGCCCGTGGGGATGGACATTCA
 CTGGGACCATGTGAGCCGCTCTGCAGCCCTGCCTCATCGACTACGATTTCTAGGCAAGTTTCGAGAGC
 ATGGAGGACGATGCCAATTCTTCCTGAGCCTCATCCGCGCGCCGCGGAACCTGACCTTCCCCGGTTCA
 AGGACCGGCACTCGCAGGAGGCGCGGACCACAGCGAGGATCGCCACCAGTACTTCGCCAACTCTCGGC
 CCTGCAAAGGCAGCGCACCTACGACTTCTACTACATGGATTACCTGATGTTCAACTATTCCAAGCCCTT
 GCAGATCTGTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG225689 representing NM_001127895
 Red=Cloning site Green=Tags(s)

MTLRPGTMRLACMFSSILLFGAAGLLLFISLQDPTLAPQQVPGIKFNIRPRQPHHDLPPGGSQDGLKE
 PTERVTRDLSSGAPRGRNLPAPDQPQPPLQRGTRLRLRQRRRLLIKMPAAATIPANSSDAPFIRPGPG
 TLDGRWVSLHRSQQRKRVMQEACAKYRASSRRRAVTPRHVSRIFVEDRHRVLYCEVPKAGCSNWKRVLM
 VLAGLASSTADIQHNTVHYGSALKRLDTFDRQGILHRLSTYTKMLFVREPFERLVSAFRDKFEHPNSYYH
 PVFGKAILARYRANASREALRTGSGVRFPEFVQYLLDVHRPVGMDIHWDHVSRLCSPCLIDYDFVGKFES
 MEDDANFFLSLIRAPRNLTFRPFKDRHSQEARTTARIAHQYFAQLSALQRQRTYDFYYMDYLMFNYSKPF
 ADLY

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001127895

ORF Size: 1272 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_001127895.1](#), [NP_001121367.1](#)

RefSeq Size: 2340 bp

RefSeq ORF: 1275 bp

Locus ID: 64377

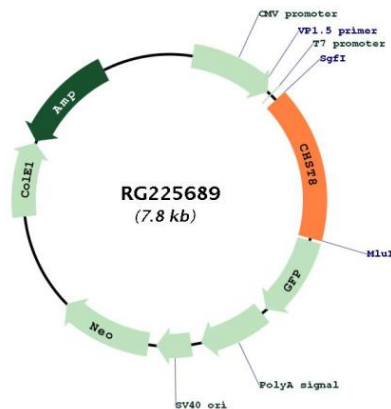
UniProt ID: [Q9H2A9](#)

Cytogenetics: 19q13.11

Protein Families: Transmembrane

Gene Summary: The protein encoded by this gene belongs to the sulfotransferase 2 family. It is predominantly expressed in the pituitary gland, and is localized to the golgi membrane. This protein catalyzes the transfer of sulfate to position 4 of non-reducing N-acetylgalactosamine (GalNAc) residues in both N-glycans and O-glycans. It is responsible for sulfation of GalNAc on luteinizing hormone (LH), which is required for production of the sex hormones. Mice lacking this enzyme, exhibit increased levels of circulating LH, and precocious sexual maturation of both male and female mice. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Aug 2011]

Product images:



Circular map for RG225689