

## Product datasheet for **RG208428**

### CHST14 (NM\_130468) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CHST14 (NM\_130468) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** CHST14  
**Synonyms:** ATCS; D4ST1; EDSMC1; HNK1ST  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG208428 representing NM\_130468  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTTCCCCCGCCGCTGACCCCGCTGGCGGCCCAATGGCGCCGAGCCCCTGGGCCGGGCGCTGAGGC  
GGGCCCCCTCTGGGCAGGGCCCGGGCGGGCTGGGTGGGCCGCCCTGCTGCTGCCGTCCATGCTGATGTT  
TGCGGTGATCGTGGCCTCCAGCGGGCTGCTGCTCATGATCGAGCGGGGCATCCTGGCCGAGATGAAGCCC  
CTGCCCTGCACCCGCCCGCGGAGGGCACAGCCTGGCGCGGAAAGCCCCAAGCCTGGGGCCTGT  
CCCTCAGGGCTGGGACGCGGACTTGCAAGTGCAGGACGTCGGAACAGGACCCTGCGGGCGGTGTG  
CGGACAGCCAGGCATGCCCGGGACCCCTGGGACTTGCCGGTGGGCGAGGCGCACCCCTGCTGCGCCAC  
ATCCTCGTAAGTGACCGTTACCGCTTCCCTACTGCTACGTCGCCAAGGTGGCCTGCTCTAACTGGAAGC  
GGGTGATGAAGGTGCTGGCAGGCGTCTGGACAGCGTGGACGTCGCTCAAGATGGACCACCGCAGTGA  
CCTGGTGTTCCTGGCCGACCTGCGGCCTGAGGAGATTCGCTACCGCCTGCAGCACTACTTAAAGTTCCTG  
TTGTGCGGGAGCCCTTGGAACGCTCCTCTGCCTACCGCAACAAGTTTGGCGAGATCCGAGAGTACC  
AGCAACGCTATGGGGCTGAGATAGTGAGGCGGTACAGGGCTGGAGCGGGCCAGCCCTGCAGGCGACGA  
TGTCACATTCCCCGAGTTCCTGAGATACCTGGTGGATGAGGACCCTGAGCGCATGAATGAGCATTGGATG  
CCCGTGTACCACCTGTGCCAGCCTTGTGCCGTGCACTATGACTTTGTGGGCTCCTATGAGAGGCTGGAG  
CTGATGCAAATCAGGTGCTGGAGTGGGTACGGGACACCCTCACGTCCGATTTCCAGCTCGCCAGGCCTG  
GTACCGGCCAGCCAGCCCCGAAAGCCTGCATTACCACTTGTGCAGTGCCCCCGGGCCCTGCTGCAGGAT  
GTGCTGCCTAAGTATATCCTGGACTTCTCCCTTCTTGCCTACCCACTGCCTAATGTACCAAGGAGGCGT  
GTCAGCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG208428 representing NM\_130468  
 Red=Cloning site Green=Tags(s)

MFPRPLPLAAPNGAEPLGRALRRAPLGRARAGLGGPPLLLPSMLMFAVIVASSGLLLMIERGILAEKMP  
 LPLHPPGREGTAWRGKAPKPGGLSLRAGDADLQVRQDVRNRTLRAVCGQPGMPDPWDLVPGQRRTLLRH  
 ILVSDRYRFLYCYVPKVACSNWKRVMKVLAVGLDSVDVRLKMDHRSDLVFLADLRPEEIRYRLQHYFKFL  
 FVREPLERLLSAYRNKFGIERYQQRYGAEIVRRYRAGAGPSPAGDDVTFPEFLRYLVDEDPERMNEHWM  
 PVYHLCQPCAVHYDFVGSYERLEADANQVLEWVRAPPHVRFPARQAWYRPASPESLHYHLCSAPRALLQD  
 VLPKYILDFSLFAYPLPNVTKEACQQ

TRTRPLE - GFP Tag - V

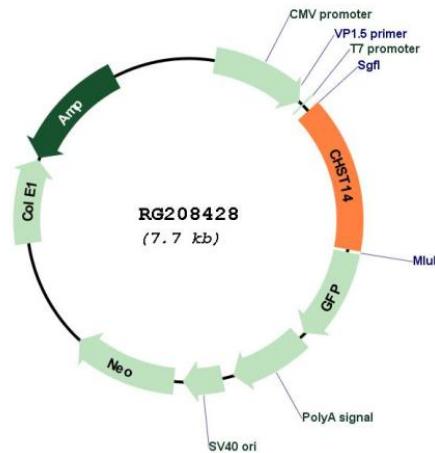
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_130468

<b>ORF Size:</b>	1128 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_130468.4</a>
<b>RefSeq Size:</b>	2156 bp
<b>RefSeq ORF:</b>	1131 bp
<b>Locus ID:</b>	113189
<b>UniProt ID:</b>	<a href="#">Q8NCH0</a>
<b>Cytogenetics:</b>	15q15.1
<b>Protein Pathways:</b>	Chondroitin sulfate biosynthesis
<b>Gene Summary:</b>	This gene encodes a member of the HNK-1 family of sulfotransferases. The encoded protein transfers sulfate to the C-4 hydroxyl of N-acetylgalactosamine residues in dermatan sulfate. Mutations in this gene have been associated with adducted thumb-clubfoot syndrome. [provided by RefSeq, Mar 2010]