

## Product datasheet for **MG217755**

### Chst10 (NM\_145142) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Chst10 (NM_145142) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chst10
Synonyms:	A1507003; AU041319; Hnk-1st; ST
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG217755 representing NM_145142 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGAAAATGTGAACCCATCAGGAAGGATCATCGAATGGCCCTGTCTGACAACATGCACCATCAGTGGC  
TCCTGCTGGCTGCATGCTTTGGGTGATTTTCATGTTTCATGGTGGCCAGCAAGTTCATCACGTTGACCTT  
TAAGGATCCGGATGGGTATAGTCCAAACAGGAGTTTGTGTTCTGACGACCATGCCGGAAGCAGAGAAG  
CTAAGAGGAGAGAAGCATTTTCTGAAGTCCCAGCAACTGGGAAGATGCTTTCGGACAGCCGTCCTG  
ATCAGCCCCGGTTTATCTGGAGCGGCTGGAGCTCATCAGAAACACCTGCAAGGAGGAGGCTCTGCGGAA  
CCTCTCACACACCGAGGTCTCGAAGTTCGTCCTGGATCGAATATTTGTCTGTGACAAGCACAAGATTCTT  
TTCTGTGACACTCCCAAGGTGGCAACACCCAGTGAAGAAAGTCTGATCGTCCTAAATGGAGCATTTT  
CTTCCATTGAAGAGATTCTGAAAATGTAGTCCATGACCATGAGAAAAATGGCCTTCCACGCCTCTCTTC  
CTTCAGCAAAATAGGAATTCAGAAGCGATTGAAAACATACTTCAAGTTTTTTATTGTGAGAGATCCCTTT  
GAAAGACTGATTTCTGCCTTTAAGGATAAGTTTGTTCACAATCCTCGATTGAGCCTTGGTACAGGCATG  
AGATAGCCCCAGGCATTATTAGAAAGTACCGGAAGAACCGGACAGAGACCCGGGGATCCAGTTTGAAGA  
TTTTGTGCGCTACCTGGGTGATCCAAACCGCAGGTGGTTAGACCTTCAGTTTGGGACCATATCATCCAC  
TGGGTGACCTACGTTGAACCTCTGTGCGCCCTGTGAGATCAAGTACAGTGTGGTCCGACACCATGAGACCC  
TGGAGGCAGATGCCCGTACATCCTGAAAAGAAGCTGGCATAGACCATCTGGTGTCAATCCCAACCATCCC  
TCCGGGCATCACCATGTACAACAGAACCAAGGTAGAACAGTACTTCTGGGCATCAGCAACGAGACATC  
CGGCGTCTCTATGCCCGCTTTGAAGGGACTTCAAGCTCTTTGGGTATCAGAAACAGATTTCTTGTCTAA  
AT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG217755 representing NM\_145142  
 Red=Cloning site Green=Tags(s)

MENVNPSGRIIEWPLSDNMHHQWLLLAACFWVIFMFMVASKFITLTFKDPDGYSAKQEFVFLTTMPEAEK  
 LRGEKHFPEVPKPTGKMLSDSRPDQPPVYLERLELIRNTCKEEALRNLSHTEVSKFVLDRIYVCDKHKIL  
 FCQTPKVGNTQWKVLIIVLNGAFSSIEEIPENVVHDHEKNGLPRLSSFSKIGIQKRLKTYKFFIVRDPF  
 ERLISAFKDKFVHNPRFEPWYRHEIAPGIIRKYRKNRTE TRGIQFEDFVRYLGDPNRRWLDLQFGDHIIH  
 WVTYVELCAPCEIKYSVVGHHETLEADAPYILKEAGIDHLVSYPTIPPGITMYNRKTKVEQYFLGISKRDI  
 RRLYARFEGDFKLFQYQKPDFLLN

TRTRPLE - GFP Tag - V

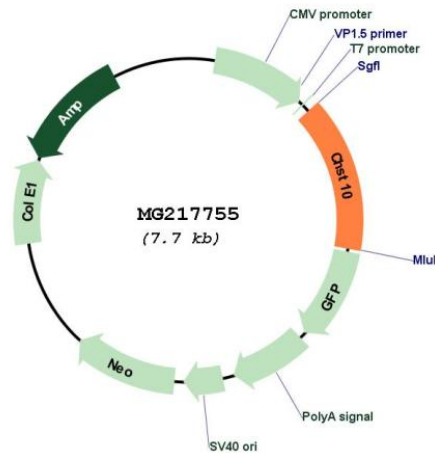
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_145142

<b>ORF Size:</b>	1122 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_145142.2</a> , <a href="#">NP_660124.2</a>
<b>RefSeq Size:</b>	3135 bp
<b>RefSeq ORF:</b>	1125 bp
<b>Locus ID:</b>	98388
<b>UniProt ID:</b>	<a href="#">Q6PGK7</a>
<b>Cytogenetics:</b>	1 B
<b>Gene Summary:</b>	Catalyzes the transfer of sulfate to position 3 of terminal glucuronic acid of both protein- and lipid-linked oligosaccharides. Participates in biosynthesis of HNK-1 carbohydrate structure, a sulfated glucuronyl-lactosaminyl residue carried by many neural recognition molecules, which is involved in cell interactions during ontogenetic development and in synaptic plasticity in the adult. May be indirectly involved in synapse plasticity of the hippocampus, via its role in HNK-1 biosynthesis.[UniProtKB/Swiss-Prot Function]