

## Product datasheet for **MG205855**

### Chst14 (NM\_028117) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Chst14 (NM\_028117) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Chst14  
**Synonyms:** 2600016L03Rik; D4ST-1; D4st1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG205855 representing NM\_028117  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTTTCCCCGCCTCTGACCCACTGGCTGCCCGAAAAGCGCGGAGACCCTGGGCCGACGCCAAGGC  
 GGGCCCCATTGGGCCGGGCCGGCTGGCTCGGGGGCCGCCCTGCTGCTGCCGTCCATGCTGATGTT  
 CGCTGTAATCGTGGCCTCCAGCGGACTGCTGCTCATGATCGAGCGAGGCATCCTATCGGAGATGAAACCC  
 CTTCCCCTGCACCCTCCAGCCACAAAGGCGGGCCTGGAGCGGGACAGATCCTAAGCCTAGAGGCCAT  
 CCTTGGATGCTGGGACTCGGACTTGCAAGTGAGGGAGGACATCCGAAACCGGACCTTGAGGGCCGTGTG  
 CGGACAACCAGGCATGCCCGGGACCCCTGGGACTTGCCGGTGGGACAGCGGCGCACCCCTGCTGCGCCAC  
 ATTCTCGTAAGTGACCGCTACCGCTTCCCTACTGCTATGTCCCAAAGTGGCCTGCTCTAACTGGAAC  
 GTGTGCTGAAGGTGCTGGCTGGCATCCTGAACAACGTGGATGTCCGCCTCAAGATGGACCACCGCAGTGA  
 CTTGGTGTCTGGCAGACCTGCGGCCTGAGGAGATTCGCTACCGTCTGCAGCACTACTTCAAGTTCCTG  
 TTTGTGCGAGACCCCTTGGAACGCCTCCTGTCTGCTTACCGTAACAAGTTTGGAGAGATCCGAGAGTACC  
 AGCAGCGATATGGGGCCGAAATTGTCAGGCGCTACAGGGCTGGAGCTGGCCCCAGCCCTGCAGGGGACGA  
 TGTACACCTCCAGAGTTCCTGAGATACCTGGTGGATGAGGATCCTGAACATATGAATGAGCATTGGATG  
 CCTGTGTACCACCTGTGCCAACCATGTGCTGTGCACTACGACTTGTGGGTTCTATGAGAGGCTGGAGG  
 CTGATGCCAACAGGTGCTGGAGTGGGTGCGGGCCCCACCCCATGTCCGGTTCAGCTGCCAGGCCTG  
 GTACCGGCCAGCCAGCCAGAAAGTCTGCATTACCACTTGTGCAATGTTCCACGGGCCCTGCTTCAAGAT  
 GTGCTACCTAAGTATATCCTGGACTTCTCCCTTTTGCTTACCCACTGCCCAATGTACCAAGGAAGCCT  
 GTCACCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG205855 representing NM\_028117  
 Red=Cloning site Green=Tags(s)

MFPRPLPLAAPKSAETLGRTPRRAPLGRARAGLGGPPLLLPSMLMFAVIVASSGLLLMIERGILSEMKP  
 LPLHPPSHKGAAWSGTDPKPRGLSLDAGDSDLQVREDIRNRTLRAVCGQPGMPDPWDLVPGQRRTLLRH  
 ILVSDRYRFLYCYVPKVASCNWKRVLKVLGILNNVDVRLKMDHRSDLVFLADLRPEEIRYRLQHYFKFL  
 FVRDPLERLLSAYRNKFGEIREYQQRYGAEIVRRYRAGAGPSPAGDDVTFPEFLRYLVDEDEPEHMNEHWM  
 PVYHLCQPCAVHYDFVGSYERLEADANQVLEWVRAPPHVRFPARQAWYRPASPESLHYHLCNVPRALLQD  
 VLPKYILDFSLFAYPLPNVTKEACHQ

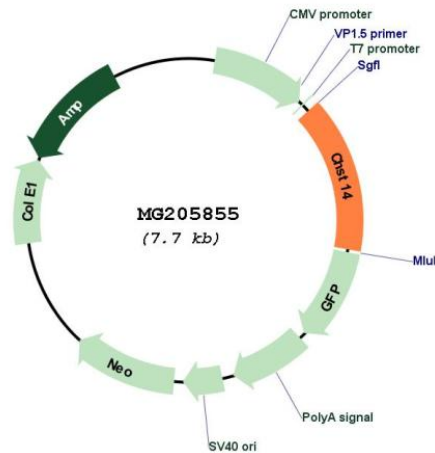
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_028117

<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_028117.3</a> , <a href="#">NP_082393.3</a>
<b>RefSeq Size:</b>	2073 bp
<b>RefSeq ORF:</b>	1131 bp
<b>Locus ID:</b>	72136
<b>UniProt ID:</b>	<a href="#">Q80V53</a>
<b>Cytogenetics:</b>	2 E5
<b>Gene Summary:</b>	Catalyzes the transfer of sulfate to position 4 of the N-acetylgalactosamine (GalNAc) residue of dermatan sulfate. Plays a pivotal role in the formation of 4-O-sulfated IdoA blocks in dermatan sulfate. Transfers sulfate to the C-4 hydroxyl of beta1,4-linked GalNAc that is substituted with an alpha-linked iduronic acid (IdoUA) at the C-3 hydroxyl. Transfers sulfate more efficiently to GalNAc residues in -IdoUA-GalNAc-IdoUA- than in -GlcUA-GalNAc-GlcUA-sequences. Has preference for partially desulfated dermatan sulfate. Addition of sulfate to GalNAc may occur immediately after epimerization of GlcUA to IdoUA. Appears to have an important role in the formation of the cerebellar neural network during postnatal brain development.[UniProtKB/Swiss-Prot Function]