

## Product datasheet for **MG216556**

### Chst9 (NM\_199055) Mouse Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Chst9 (NM_199055) Mouse Tagged ORF Clone                                    |
| Tag:                      | TurboGFP  |
| Symbol:                   | Chst9   |
| Synonyms:                 | 5430438D01Rik   |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| ORF Nucleotide Sequence:  | >MG216556 representing NM_199055<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAAGCCAACAAGTCTTCTTTCTGCTCTGCTGTTTGGGACAGCAGGGCTTCTGCTCTTCATGTACT  
TGCAAGCATGGATTGAAGAACATCATACAGGGAAAATAGAGAAGAAAAGAGATCAGAAAGGAGTATCGGT  
GACTACGGGAAAATCCAGAAACAGATCATGAATCAGAACTCTGAGGTTACATGCCTGAAGATCTGAAG  
AAGAAAGGGGAGATCTGCTCAACCTAGGGAGTCCAACAAGGGTTTTAAGGAAGAACAGCCATTCACAAA  
GGGAGAACAGAGCTTACAGATCAACTGAAGCACATCAAGGAGCTAAAATTGAAGTTTTTCAGAAACCCAT  
CCAGATGGACTGGCCACTGGTCACTCAGCCCTTAAACAAAAGTTTGGTCCAAGGCAACAAATGGAAGAAA  
GCAGATGCAACCAAGAGAAGCGTCGGTCACTTCTTCATGAGTTTTGCAAGAAATATGGTAGAGTAAATG  
ATCCCAAGTTCAACCTTTTTCATATAGTATCTAGGATATATGTAGAAGACAAAACAAAAATCCTGTACTG  
TGAAGTACAAAAGCTGGCTGCTCTAATTGAAAAAGAAATCTGATGGTCCATAATGGATTGGCTTCTCT  
GCATACAATATCTCCCATGATACTGTGCACTATGGAAAGCATCTGAAAACACTGGATAGTTTTGACTTAA  
AAGGAGTACACATGCGTTTTAAATACATATACCAAAGCTGTGTTTGTAGAGATCCCATGGAAGATTAGT  
CTCCGCATTTAGGGATAAATTTGAGCATCCCAATAGTTACTACCATCCGGTGTGGAAAGGCAATTATC  
AAGAAATATCGACCAAATGCCTCTGCAGAAGCATTAAATATGGATCTGGAGTCAAATTCAAAGAATTCTG  
CCTACTATTTGCTGGATGCTCACCGTCCAGTAGGAATGGATATTCAGTGGAAAGAGTCAAGCAAACTGTG  
TTATCCGTGTTTGTCACTATGACTTTGTAGGGAAGTTTGTAGACCTTAGGAGAGGATGCCAATTAATCTT  
CTACAGTTGATTGGTCTCCAAAAGAGTTGACATTTCCAACTTTAAGGATAGGCACTCCTCTGATGAAA  
GAACCAATGCCACGTGGTAAGGCAGTATTTAAAGGACCTGAGCACAGCCGAAAGACAGCTCATCTATGA  
CTTCTACTTGGACTATTTGATGTTAATTACACAACCTCCACATTTG

**ACGGT**ACGGCGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG216556 representing NM\_199055  
 Red=Cloning site Green=Tags(s)

MKAKQVFFSVLLFGTAGLLLFMYLQAWIEEHHTGKIEKKRDQKGVSVTTGKIQKQIMNQNSEVHMPEDLK  
 KKGDDLNLGSPTRVLRKNSHSQRENRAYRSTEAHQGAKIEVFQKPIQMDWPLVTQPLNLSLVQGNKWKK  
 ADATQEKRSSFLEHEFCCKYGRVNDPKFNLFHIVSRIYVEDKHKILYCEVPKAGCSNWKRIIMVLNGLASS  
 AYNISHDTVHYGKHLKTLDSFDLKGVMHRLNTYTKAVFVRDPMERLVSFAFRDKFEHPNSYHYHPVFGKAI  
 KKYRPNASAEALNNGSGVKFEFAYYLLDAHRPVGMDIHWERVSKLCYPCLINYDFVGKFETLGEDANYF  
 LQLIGAPKELTFPNFKDRHSSDERTNAHVVRQYLKDLSTAERQLIYDFYHLDYLMFNYYTTPHL

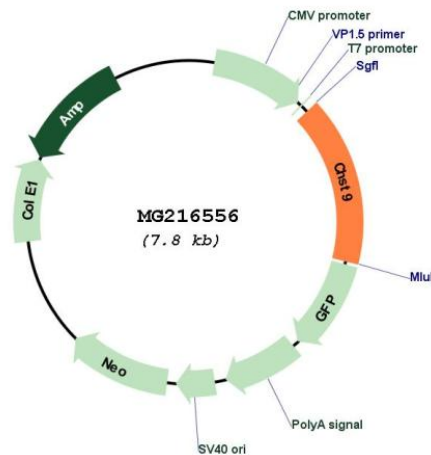
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_199055

|                               |   |
|-------------------------------|---|
| <b>ORF Size:</b>              | 1239 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_199055.2</a> , <a href="#">NP_951010.1</a>   |
| <b>RefSeq Size:</b>           | 1369 bp   |
| <b>RefSeq ORF:</b>            | 1242 bp   |
| <b>Locus ID:</b>              | 71367   |
| <b>UniProt ID:</b>            | <a href="#">Q76EC5</a>  |
| <b>Cytogenetics:</b>          | 18 A1   |
| <b>Gene Summary:</b>          | Catalyzes the transfer of sulfate to position 4 of non-reducing N-acetylgalactosamine (GalNAc) residues in both N-glycans and O-glycans. Participates in biosynthesis of glycoprotein hormones lutropin and thyrotropin, by mediating sulfation of their carbohydrate structures. Has a higher activity toward carbonic anhydrase VI than toward lutropin. Only active against terminal GalNAcbeta1, GalNAcbeta.[UniProtKB/Swiss-Prot Function]   |