

Product datasheet for **MG206600**

Chst8 (NM_175140) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chst8 (NM_175140) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chst8
Synonyms:	1500011J21Rik; AI426009
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206600 representing NM_175140 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCCACGACTCGGAACGATGCGGCTAGCCTGCATGTTCTCGTCCATCCTGCTGTTTGGAGCTGCGG
GCCTGCTCCTTTCATCAGCCTCCAGGACCCTATAGAGCTCAGCCCCAGCAAGTCCAGGTATAAAGTT
CAGCATCAGGCCCCAGCAACCCAGCATGATAGCCACTTGAGGATATCCACAGAAAAGGGCACACGAGAT
TCACCCAGCGGGTCGCCAAGAGGCTCCAGCTGCAAGCGCCTGACCAACCTCGACCTCACCCGAAGGCAG
CGGGATCTCCTTTGCGCCTCCGGCAGCGCAGGCGGAGACTGCTCATCAAAAAGATGCCAGCCGAGGGAC
TAACCAAGGCAACAACCTCGTCCGAAACCTTTATCCAGCCGAGACCCCGCACCATGGACAGTCTGTTGGTC
AGCCTGCACCCAGACCCAAACAGGAGCGCAAGCGTGTGATGCGAGAAGCCTGCGCTAAATACAGGGCCAGCA
GCAGCCGAGAGCTGTCACTCCCGCCACGTCTCCCGCATCTTCGTGGAGGACCGCCACCGTGTACTGTA
CTGTGAAGTACCCAAGGCAGGCTGCTCCAACTGGAAGAGGGTGTCTATGGTGTGGCAGGGTTAGCCTCA
TCCACGGCAGATATCCAACACAACCCGTCCACTATGGCAGCGCCCTTAAGCGCCTGGATACTTTTGACC
GGCAGGGCATAGTGACCCGCTCAGTACCTACCAAGATGCTCTTTGTCCGGAAACCTTTGAGCGGCT
GGTCTCTGCTTTCCGAGACAAGTTTGGAGCATCTAACAGCTACTATCATCCTGTCTTTGGCAAGGCTATC
CTGGCCCGGTACCGGCCAACGCCTCGCGGAGGCACTGCGGACTGGCTCCGGTGTGCAGTCCCGGAGT
TCGTCCAGTACCTGTTGGATGTCCACCGCCCGTGGGCATGGACATCCACTGGGACCATGTTAGCCGGCT
GTGCAGCCCTGCCTCATCGACTATGACTTTGTGGCAAGTTCGAGAGCATGGAAGACGATGCCAACTTC
TTCCTGCTCTCATCCATGCGCCCGGAACTGACTTTCCCGAGGTTCAAGGACAGGCACTCCGAGGAGG
CGCGGACCACATCGAGAATCACCCATCAGTACTTCGCTCAGCTCTCCTGCTGCAGCGACAGCGAACCTA
CGACTTACTACATGGATTACCTGATGTTCAACTACTCCAAACCTTTCTCGGACCTGTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206600 representing NM_175140
 Red=Cloning site Green=Tags(s)

MTPRLGTMRLACMFSSILLFGAAGLLLFISLQDPIELSPQQVPGIKFSIRPQQPQHDSLRISTEKGTRD
 SPSGSPRGLQLQAPDQPRPHPKAAGSPLRLRQRRRLLIKMPPAAGTNQGNNSSETFIQPRPRTMDSRWV
 SLHQQTQQRKVMREACAKYRASSRRRAVTPRHVSRIFVEDRHRVLYCEVPKAGCSNWKRVLMVLAGLAS
 STADIQHNTVHYGSALKRLDTFDRQGIHVHRLSTYTKMLFVREPFERLVSFAFRDKFEHPNSYYHPVFGKAI
 LARYRANASREALRTGSGVQFPEFVQYLLDVHRPVGMDIHWHDVSRLLCSPCLIDYDFVGKFESEMEDDANF
 FLRLIHAPGNLTFPRFKDRHSEEARTTSRITHQYFAQLSSLQRQRTYDFYMYDYLMFNYSKPFSDLY

TRTRPLE - GFP Tag - V

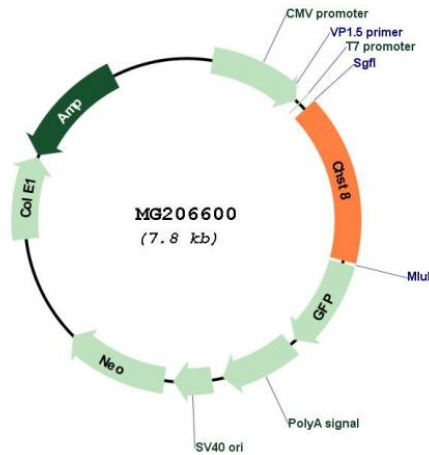
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_175140

ORF Size:	1251 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:	<ol style="list-style-type: none">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_175140.4 , NP_780349.3
RefSeq Size:	2397 bp
RefSeq ORF:	1254 bp
Locus ID:	68947
UniProt ID:	Q8BQ86
Cytogenetics:	7 B2
Gene Summary:	Catalyzes the transfer of sulfate to position 4 of non-reducing N-acetylgalactosamine (GalNAc) residues in both N-glycans and O-glycans. Required for biosynthesis of glycoprotein hormones lutropin and thyrotropin, by mediating sulfation of their carbohydrate structures. Only active against terminal GalNAcbeta1, GalNAcbeta. Not active toward chondroitin. [UniProtKB/Swiss-Prot Function]