

## Product datasheet for **MG215239**

### Ctsm (NM\_022326) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Ctsm
Synonyms:	1600027J17Rik; AI324100; Catm
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

**ORF Nucleotide Sequence:** >MG215239 representing NM\_022326  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGACTTCTGCTATCTTCTGGCCATGCTCTGCTTGGGAATGGCTTTACCATCACCAGCACCTGATCCCA  
TTTTGGATGTTGAATGGCAGAAATGAAAAATAAATATGAAAAAGCATACAGTCTGGAGGAAGAAGGACA  
GAAGAGAGCAGTATGGGAAGACAATATGAAAAAGATCAAATGCACAATGGGGAGAATGGCCTGGGAAG  
CATGGTTTCACCATGGAAATGAATGCCTTTGGTGACATGACACTTGAAGAATTTAGGAAAGTGATGATTG  
AAATCCCAAGTCCCAACTGTCAAGAAAGGAAAAAGTGTCCAGAAACGTCTGTCTGTAACTGCCCAAGTT  
TATAAACTGGAAAAAGAGAGGCTATGCTACTCCTGTGCAGACACAGGGCAGATGTAATTCCTGTTGGGCT  
TTTTCTGTGACTGGTGCCATAGAAGGACAGATGTTCCGAAAAACAGGTCAACTGATCCCTCTGAGTGAC  
AGAACCTTGTGGACTGTTCTAGGCCTCAAGGCAACTGGGGCTGTTATTTGGCAATACATACCTTGCAAT  
GCACTATGTGATGGAAAATGGAGGTCTAGAGTCTGAGGCAACCTATCCTTATGAAGAAAAGGATGGATCA  
TGCAGGTACAGTCCAGAAAATCTACTGCTAATATAACAGGCTTTGAGTTTGTCCAAAAGATGAGGATG  
CCCTAATGAATGCTGTGGCAAGTATAGGGCCATTTCTGTTGCAATCGATGCAAGGCATGCATCTTTCT  
GTTCTATAAAAGAGGTATATATTAGGCCAACTGCAGTAGCTCTGTTGTACACATTCTATGTTACTA  
GTTGGCTATGGCTTTACAGGAAGAGAATCAGATGGCAGGAAATCTGGCTGGTCAAGAACAGCATGGGTA  
CACAATGGGGCAATAAAGGCTATATGAAGATTTCCAGAGACAAGGGAAACCACTGTGGAATTGCTACATA  
TGCCCTTTACCCAGAGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



**Protein Sequence:** >MG215239 representing NM\_022326  
Red=Cloning site Green=Tags(s)

MTSAIFLAMLCGLMALPSPAPDPILDVEWQKWKIKYKAYSLEEEGQKRAVWEDNMKKIKLHNGENGLGK  
 HGFTMEMNAFGDMTLEEFRKVMIEIPVPTVKKGKSVQKRLSVNLPKFINWKKRGYVTPVQTQGRNCSCWA  
 FSVTGAIIEGQMFRTGQLIPLSVQNLVDCSRPQGNWGCYLGN TYLALHYVMENGGLESEATYPYEEKDGS  
 CRYSPENSTANITGF EFVPKNEDALMNAVASIGPISVAIDARHASFLFYKRGIIYEPNCSVVVTHSMLL  
 VGYGFTGRES DGRKYWL VKNSMG TQWGNKGYMKISRDKGNHCGIATYAL YPRV

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_022326

**ORF Size:** 999 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:**

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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_022326.4](#)

**RefSeq Size:** 1204 bp

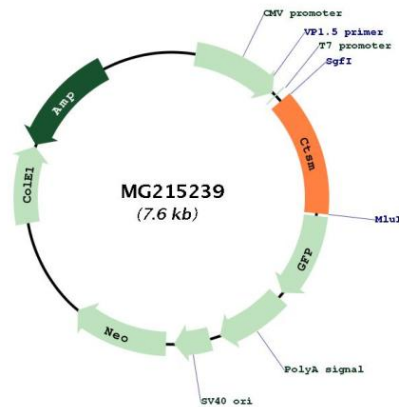
**RefSeq ORF:** 1002 bp

**Locus ID:** 64139

**UniProt ID:** [Q9JL96](#)

**Cytogenetics:** 13 32.74 cM

### Product images:



Circular map for MG215239