

## Product datasheet for **MG204431**

### Ctso (NM\_177662) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ctso (NM\_177662) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Ctso  
**Synonyms:** A330105D01Rik; AI118514  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG204431 representing NM\_177662  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAGCCGAGTTGGTGAACCTCTTGCTACTGTGTTGCTGCTGTCTCGGCCGCCACGGGGTCGCCGGGA  
 CCTGGTCTTGGAGCCACCAGCGGGAGGCCCGCCCTTGCGGGAAAGCCTTCATAGACACCGATACTTGAA  
 CTCTTTTCCTCATGAAACTCCACTGCCTTCTATGGAGTAAATCAGTTTTCTATTTGTTTCCTGAAGAG  
 TTTAAAGCTTTGTATTTAGGCAGCAAATATGCCTGGGCTCCAGATACCCAGCAGAAGGACAGAGACCTA  
 TCCCAATGTGTCTTTGCCATTGAGATTGACTGGAGGACAAGCATGTTGTGAATCCTGTAAGGAACCA  
 GGAGATGTGTGGAGGATGCTGGGCCTTCAGCGTGGTGAAGTGCATAGAGTCAGCTCGTGAATCCAAGGG  
 AAATCTCTGGATTACCTGAGCGTGCAGCAGGTCATCGACTGCTCCTTTAATAATTCTGGTGCCTCGGTG  
 GCTCTCCTCCCTGTGCCTTGCCTGGCTAAATGAGACACAGTTGAAGTTGGTGGCAGATTCACAGTACCC  
 ATCAAGGCAGTAAATGGCCAGTGTCCGCACTTTCCTCAATCACAAGCTGGAGTTTCAGTCAAGGATTTT  
 TCTGCATATAACTTCAGGGGCCAAGAGGATGAAATGGCCAGAGCACTTCTGTCTTCGGCCCTTTGGTTG  
 TGATAGTTGATGCGATGAGCTGGCAGGATTATCTGGGGGCATAATCCAACATCACTGCTCCAGTGGGGA  
 GGCCAACCATGCCGTTCTCATCACAGGCTTTGATAGGACAGGAAATACACCATATTGGATGGTGGCAAC  
 TCCTGGGATCCTCCTGGGAGTAGAAGGCTATGCCACGTGAAAATGGGAGGTAATGTTTGTGGCATTG  
 CAGACTCTGTAGCTGCTCTTTGTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204431 representing NM\_177662  
Red=Cloning site Green=Tags(s)

MKPQLVNLLLLCCCLGRHGVAGTWSWSHQREAAALRESLHRHRYLNSFPHENSTAFYGVNQFSYLFPEE  
 FKALYLGSKYAWAPRYPAEGQRPIPNVSLPLRFDWRDKHVNPVRNQEMCGGCWAFSVVSAIESARAIQG  
 KSLDYLSVQQVIDCSFNNSGCLGGSPPCALRWLNETQLKLVADSQYPFKAVNGQCRHFPQSQAGVSVKDF  
 SAYNFRGQEDEMARALLSFGPLVVIIVDAMSWQDYLGGIIQHHCSSGEANHAVLITGFDRTGNTPYWMVRN  
 SWGSSWGVGEYAHVKMGGNVCGIADSVAAVFV

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_177662

**ORF Size:** 936 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.

**RefSeq:** [NM\\_177662.2](#), [NP\\_808330.1](#)

**RefSeq Size:** 3453 bp

**RefSeq ORF:** 939 bp

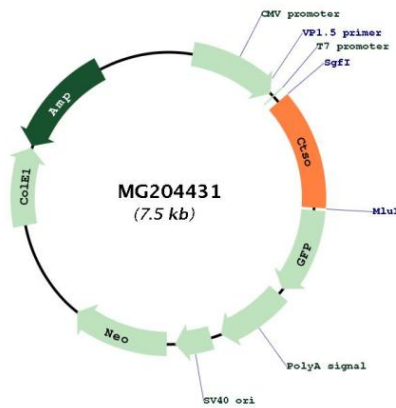
**Locus ID:** 229445

**UniProt ID:** [Q8BM88](#)

**Cytogenetics:** 3 E3

**Gene Summary:** This gene encodes a member of the cathepsin family of cysteine proteases that are involved in the degradation of cellular proteins. The encoded preproprotein undergoes proteolytic processing to generate a mature, functional enzyme. [provided by RefSeq, Jan 2016]

### Product images:



Circular map for MG204431