

Product datasheet for **MG204311**

Ctsz (NM_022325) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ctsz (NM_022325) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ctsz
Synonyms: A1787083; AU019819; CTS; CTSX; D2Wsu143; D2Wsu143e
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG204311 representing NM_022325
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTCGTCGGGGTGGTGCAGCAGCTGCCCTGGTGTGCTGATGTTGCTGTTGGCGAGTGCGGCAC
GGGCCAGACTCTACTTCCGCTCGGGCCAGACTTGCTACCATCCCATTGCGGGGACCAGCTGGCTCTGCT
GGGGCGCAGGACTTATCCTCGGCCACATGAGTACCTGTCCCAGCGGATCTCCCTAAGAATTGGGACTGG
AGAAATGTGAACGGTGTCAACTATGCCAGCGTCACCAGGAACCAGCACATCCCACAGTACTGTGGTTCCT
GCTGGGCCACCGCAGCACCAGTGCCATGGCAGACCGAATCAACATCAAGAGGAAAGGTGCATGGCCCTC
CATCCTGCTGTCCGTACAGAATGTCACTGACTGTGGCAATGCTGGCTCTTGTGAAGGGGCAATGACCTT
CCGGTGTGGGAGTATGCCACAAGCATGGCATCCCCGATGAGACCTGCAACAACCTACCAGGCCAAGGACC
AAGACTGTGACAAGTTTAACCAAGTGTGGGACCTGCACTGAATTCAAAGAGTGTACACCATCCAGAATTA
CACCTCTGGAGAGTGGGTGATTACGGTTCCTGTCCGGGAGGGAGAAGATGATGGCCGAGATCTATGCC
AATGGTCCCATCAGTGCGGGATAATGGCAACAGAGATGATGTCTAACTACACTGGAGGCATCTATGCTG
AGCACCAGGACCAGGCTGTTATCAACCACATCATCTCTGTAGCTGGCTGGGGTGTGAGCAACGATGGCAT
CGAGTACTGGATTGTCCGAAATTCATGGGGCGAACCTGGGGTGTGAGAAAGGCTGGATGAGGATCGTGACC
AGCACCTACAAGGGAGGCACAGGTGACAGCTACAACCTTGCCATCGAGAGTGCCTGCACATTTGGGGACC
CCATTGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204311 representing NM_022325
 Red=Cloning site Green=Tags(s)

MASSGSVQQLPLVLLMLLLSAARARLYFRSGQTCYHPIRGDQLALLGRRTYPRPHEYLSPADLPKNWDW
 RNVNGVNYASVTRNQHIPQYCGSCWAHGSTSAMADRINIKRKGAWPSILLSVQNVIDCGNAGSCEGGNDL
 PVWEYAHKHGIPDETCNNYQAKDQDCDFNQCGTCTEFKECHTIQNYTLWRVGDYGSLSGREKMMAEIYA
 NGPISCGIMATEMMSNYTGGIYAEHQDQAVINHIIISVAGWGVSNDEIYWIWRNSWGPWGEKGMRIVT
 STYKGGTGDSDYNLAIESACTFFGDPIV

TRTRPLE - GFP Tag - V

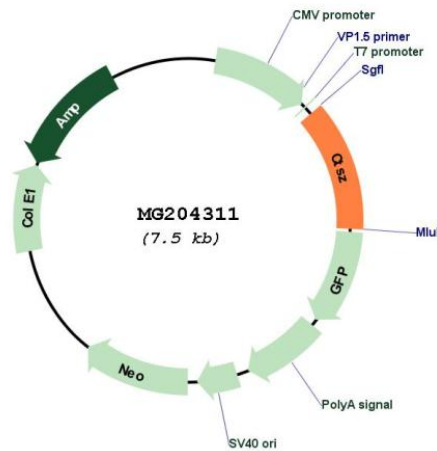
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_022325

ORF Size: 918 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_022325.3
RefSeq Size:	1393 bp
RefSeq ORF:	921 bp
Locus ID:	64138
UniProt ID:	Q9WUU7
Cytogenetics:	2 97.94 cM
Gene Summary:	This gene encodes a member of the peptidase C1 (papain) family of cysteine proteases. The encoded preproprotein is proteolytically processed to generate a mature enzyme with carboxypeptidase activity. An enzymatically inactive form of the protein, that is associated with the propeptide, may be involved in cancer cell invasion and proliferation. Homozygous knockout mice for this gene exhibit impaired cancer cell invasion in a breast cancer model. [provided by RefSeq, Aug 2015]