

Product datasheet for MR204311

Ctsz (NM_022325) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ctsz (NM_022325) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ctsz
Synonyms:	A1787083; AU019819; CTS; CTSX; D2Wsu143; D2Wsu143e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204311 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTCGTCGGGGTCGGTGCAGCAGCTGCCCTGGTGTCTGATGTTGCTGTTGGCGAGTGCGGCAC
GGGCCAGACTCTACTTCCGCTCGGGCCAGACTTGCTACCATCCCATTTCGCGGGGACCAGCTGGCTCTGCT
GGGGCGCAGGACTTATCCTCGGCCACATGAGTACCTGTCCCAGCGGATCTCCCTAAGAATTGGGACTGG
AGAAATGTGAACGGTGTCAACTATGCCAGCGTCACCAGGAACCAGCACATCCCACAGTACTGTGGTTCCT
GCTGGGCCACCGCAGCACCAGTCCATGGCAGACCGAATCAACATCAAGAGGAAAGGTGCATGGCCCTC
CATCCTGCTGTCCGTACAGAATGTCACTTACTGTGGCAATGCTGGCTCTTGTGAAGGGGCAATGACCTT
CCGGTGTGGGAGTATGCCACAAGCATGGCATCCCCGATGAGACCTGCAACAACCTACCAGGCCAAGGACC
AAGACTGTGACAAGTTAACCAGTGTGGGACCTGCACTGAATTCAAAGAGTGTACACCATCCAGAATTA
CACCTCTGGAGAGTGGGTGATTACGGTTCCTGTCCGGGAGGGAGAAGATGATGGCCGAGATCTATGCC
AATGGTCCCATCAGTGCGGGATAATGGCAACAGAGATGATGTCTAACTACACTGGAGGCATCTATGCTG
AGCACCAGGACCAGGCTGTTATCAACCACATCATCTCTGTAGCTGGCTGGGGTGTGAGCAACGATGGCAT
CGAGTACTGGATTGTCCGAAATTCATGGGGCGAACCTGGGGTGTGAGAAAGGCTGGATGAGGATCGTGACC
AGCACCTACAAGGGAGGCACAGGTGACAGCTACAACCTGCCATCGAGAGTGCCTGCACATTTGGGGACC
CCATTGTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR204311 protein sequence
Red=Cloning site Green=Tags(s)

MASSGSVQQLPLVLLMLLASAARARYFRSGQTCYHPIRGDQLALLGRRTYPRPHEYLSPADLPKNWDW
 RNVNGVNYASVTRNQHIPQYCGSCWAHGSTSAMADRINIKRKGAWPSILLSVQNVIDCGNAGSCEGGNDL
 PVWEYAHKHGIPDETENNYYQAKDQDCDFNQCGTCTEFKECHTIQNYTLWRVGDYGLSGREKMMAEIYA
 NGPISCGIMATEMMSNYTGGIYAEHQDQAVINHIISVAGWGVSNDDGIEYWIVRNSWGPWGEKGMRIYV
 STYKGGTGDSYNLAIESACTFFGDPIV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_022325

ORF Size: 921 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_022325.3](#)

RefSeq Size: 1393 bp

RefSeq ORF: 921 bp

Locus ID: 64138

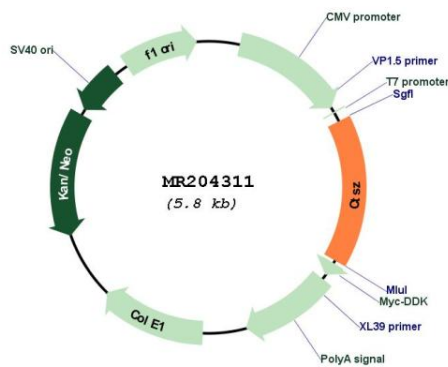
UniProt ID: [Q9WUU7](#)

Cytogenetics: 2 97.94 cM

MW: 34 kDa

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]

Product images:



Circular map for MR204311