

## Product datasheet for MR205097

### Ctss (NM\_021281) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ctss (NM_021281) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ctss
Synonyms:	Cats
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205097 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGGGCTCCTGGCCACGCTGCCATAAGATGGCTGTTTTGGATGCCCTGGTGTGCTCTGTGGCAATGG  
AGCAACTGCAGAGAGACCCTACCCTGGACTACCACTGGGATCTCTGGAAGAAAACCCATGAGAAAGAATA  
CAAGGATAAGAATGAAGAAGAAGTACGGCGTCTCATCTGGGAAAAGAATCTGAAGTTTATAATGATTCAC  
AATCTCGAATATTCTATGGGAATGCATACCTACCAAGTGGGCATGAACGATATGGGAGACATGACCAATG  
AAGAAATCTTGTGTCGGATGGGTGCTCTGAGAATCCCCGACAGTCTCCGAAGACTGTCACCTTCAGGTC  
ATACTCTAATCGGACATTGCCTGACACTGTGGACTGGAGAGAGAAGGGCTGCGTCACTGAGGTGAAATAC  
CAGGGTCTTGTGGTGCCTGTTGGGCTTTCAGTGCTGTGGGGGCCCTTGAAGGGCAGCTGAAGCTGAAAA  
CGGGGAAGCTGATATCCCTCAGTGCTCAGAACCTGGTGGACTGCTCAAATGAAGAAAAGTATGGGAATAA  
AGGCTGTGGAGGCGGCTACATGACCGAAGCTTCCAGTACATCATTGATAATGGGGGCATAGAGGCGAGC  
GCTTCCTATCCCTACAAAGCCATGGATGAAAAGTGTCACTATAACTCAAAAAATCGAGCTGCTACGTGTT  
CAAGGTACATTGAGCTCCCCTTTGGTGACGAGGATGCCCTGAAAGAAGCAGTGGCCACTAAAGGGCCTGT  
CTCTGTGGCATCGACGCCAGCCATTCTCCTTCTTCTACAAAAGCGGTGTCTATGACGACCCCTCC  
TGTACGGGCAATGTGAATCATGGTGTCTTGTGGTTGGCTATGGGACTCTTGATGGCAAAGATTACTGGC  
TTGTGAAAAACAGTTGGGGCCTTAACCTTGGTGATCAAGGATACATTCGGATGGCAAGAAATAATAAAAA  
TCACTGCGGAATTGCTAGTGATTGCTCTTACCCAGAAATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR205097 protein sequence  
Red=Cloning site Green=Tags(s)

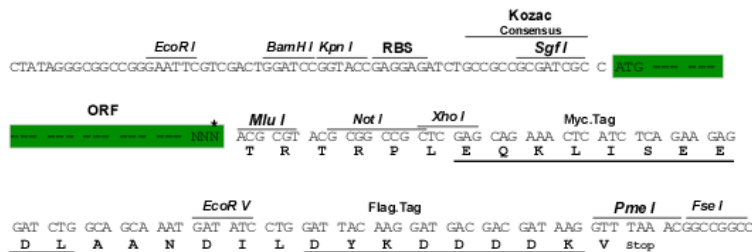
MRAPGHAAIRWLFWMPLVCSVAMEQLQRDPTLDYHWDLWKKTHEKEYKDKNEEEVRRLLIWEKNLKFIMIH  
 NLEYSMGMHTYQVGMNDMGDMTNEEILCRMGALRIPRQSPKTVTFRSYSNRTLPTVDWREKGCVTEVKY  
 QGSCGACWAFSAVGALEGQLKLTGKGLISLSAQNLDVCSNEEKYGNKCGGGYMTAEAFQYIIDNNGGIEAD  
 ASYPYKAMDEKCHYNSKNRAATCSRYIQLPFGEDELKEAVATKGPVSVGIDASHSSFFFYKSGVYDDPS  
 CTGNVNHGVLVVGYGTLDGKDYWLKNSWGLNFGDQGYIRMARNKNKHCGIASDCSYPEI

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\_021281

**ORF Size:** 1023 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\\_021281.1](#), [NM\\_021281.3](#), [NP\\_067256.1](#)

**RefSeq Size:** 1357 bp

**RefSeq ORF:** 1023 bp

**Locus ID:** 13040

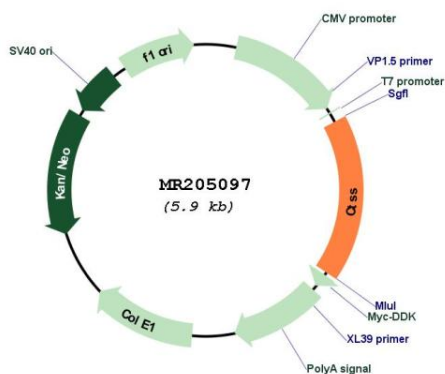
**UniProt ID:** [O70370](#)

**Cytogenetics:** 3 40.74 cM

**MW:** 38.5 kDa

**Gene Summary:** This gene encodes a member of the peptidase C1 (papain) family of cysteine proteases. Alternative splicing results in multiple transcript variants, which encode preproproteins that are proteolytically processed to generate mature protein products. This enzyme is secreted by antigen-presenting cells during inflammation and may induce pain and itch via activation of G-protein coupled receptors. Homozygous knockout mice for this gene exhibit impaired wound healing, reduced tumorigenesis in a pancreatic cancer model, and reduced pathogenesis in a myasthenia gravis model. [provided by RefSeq, Aug 2015]

### Product images:



Circular map for MR205097