

Product datasheet for MR215397

Ctsw (NM_009985) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ctsw (NM_009985) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ctsw
Synonyms:	lym; lymphopain
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR215397 representing NM_009985 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACACTGACTGCCACCTCTCTACTTTCTGGTCTGTGTTAGCGGGCCAAGGCCTCAGTACTCC
TCCTCACCAAGGATGCAGGTCCCCGGCCACTGGAGCTGAAGGAAGTCTCAAGCTGTTCCAGATCCGGTT
CAACCGGAGTTACTGGAACCCAGCAGAGTACACTCGCCGTCTGAGCATCTTTGCCACAATCTGGCTCAG
GCTCAAAGGCTACAGCAAGAAGACTTGGGTACAGCTGAGTTGGAGAGACTCCATTCACTGACCTCACAG
AGGAGGAGTTTGGCCAGTTATACGGGCAGGAGAGGTCACCAGAAAGGACCCCAACATGACCAAAAAGGT
AGAGTCTAACACGTGGGGGAATCTGTGCCCGCACCTGTGACTGGCGTAAAGCAAAGAACATCATCTCG
TCGGTCAAGAACCAGGAAGCTGCAAAATGCTGCTGGGCCATGGCAGCTGCCGACAACATCCAGGCTCTGT
GGCGCATCAAACACCAGCAGTTTGTGGACGTCTCTGTGCAGGAGCTGCTGGACTGCGAACGCTGTGGAAA
TGGTTGCAATGGTGGCTTCGTGTGGGACGCATATCTAAGTGTCTCAACAACAGTGGCCTGGCCAGTGAA
AAGGATTATCCATTCCAGGGGACAGAAAGCCTCACAGATGCCTAGCCAAGAAGTACAAGAAGGTGGCCT
GGATCCAGGATTCACCATGTTGTCCAATAATGAGCAGGCAATTGCCACTACCTGGCCGTGCATGGACC
TATCACCGTGACCATCAACATGAAACTACTCCAGCATTACCAGAAGGGTGTATCAAGGCTACACCCAGC
TCCTGTGACCCTCGCAAGTGGACCCTGTCTTGGTGGGCTTTGGCAAGGAGAAAGAGGGCATGC
AGACAGGGACAGTCTTGTCCATTCTCGAAAACGTCGCCACTCCTCCCACTACTGGATCCTGAAGAAGTCT
CTGGGGAGCTCACTGGGGCGAGAAGGGTTACTTCAGGCTGTATCGGGGAAACAACACCTGTGGAGTCACC
AAGTATCCCTTACAGCTCAAGTGGACTCACCAGTAAAGAAGGCACGGACCTCTTGTCTCTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR215397 representing NM_009985
Red=Cloning site Green=Tags(s)

MTLTAHLSYFLVLLLAGQGLSDSLLTKDAGPRPLELKEVFKLFQIRFNRSYWNPAEYTRRLSIFAHNLAQ
 AQRLQQEDLGTAEFGETPFSDLTEEEFGQLYQERSPERTPNMTKKVESNTWGESVPRTCDWRKAKNIIS
 SVKNQGSCKCCWAMAAADNIQALWRIKHQFVDVSVQELLDLCERCNGCNGGFVWDAYLTVLNNSGLASE
 KDYPFQGDRKPHRCLAKKYKKVAWIQDF TMLSNNEQAI AHYLAVHGPI TVTINMKLLQHYQKGVIKATPS
 SCDPRQVDHSVLLLVGFGKEGEMQTGTVLSHRKRRHSSPYWILKNSWGAHWGEKGYFRLYRGNNTCGVT
 KYPFTAQVDSPVKKARTSCPP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9057_d07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_009985

ORF Size: 1113 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_009985.5](#), [NP_034115.2](#)

RefSeq Size: 1438 bp

RefSeq ORF: 1116 bp

Locus ID: 13041

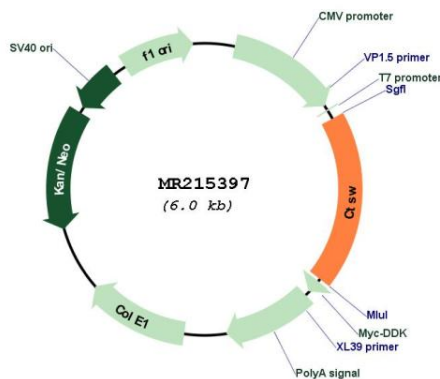
UniProt ID: [P56203](#)

Cytogenetics: 19 A

MW: 42.1 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 protein product. Expression of the encoded protein is upregulated following lymphocyte activation. Data from a human cell line suggests that the encoded enzyme may be important for viral entry into host cells. [provided by RefSeq, Aug 2015]

Product images:



Circular map for MR215397