

Product datasheet for **RR213528**

Ctsh (NM_012939) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ctsh (NM_012939) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ctsh
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR213528 representing NM_012939
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGACTGCGCTGCCCTGCTGTGCGCTGGGGCTGGCTGCTGAGTGCTGGGGCCACCGCTGAGCTGA
CCGTGAATGCCATAGAAAAGTTTCACTTTACGTCATGGATGAAACAGCATCAAAGACGTACAGCTCGAG
GGAGTACAGCCACAGGCTGCAGGTGTTTGCCAACAACCTGGAGGAAGATTCAAGCCACAACAGAGGAAC
CACACATTTAAAATGGGATTGAACCAGTTTTCCAGATATGAGCTTTGCCGAAATAAAACACAAATACCTCT
GGTCAGAGCCTCAGAATTGCTCAGCCACCAAAAGTAACTACCTCCGTGGTACTGGCCCTACCCATCCTC
CATGGACTGGAGGAAGAAAGGAAATGTCGTTTACCAGTGAAGAACCAGGGGCTGTGGCAGCTGCTGG
ACTTTCTCAACCACTGGGGCCCTAGAGTCAGCTGTGGCTATTGCCAGTGGGAAAATGATGACCTTGCTG
AGCAGCAGCTGGTGGATTGTGCCAGAACTTCAACAATCATGGCTGCCAAGGAGGTCTCCCAGCCAGGC
CTTCGAGTACATCCTGTACAACAAGGGCATCATGGGAGAGGACAGCTACCCTTACATAGGCAAGAATGGT
CAGTGCAAATTCACCCAGAAAAGGCCGTCGCGTTCGTAAGAATGTTGTCAACATCACACTCAATGATG
AGGCTGCAATGGTAGAGGCTGTGGCCCTATAACAATCCTGTGAGCTTTGCCTTTGAGGTGACTGAAGATTT
TATGATGTATAAAAGTGGTGTCTACTCCAGTAACTCCTGTCATAAACTCCAGATAAAGTAAACCATGCA
GTCCTGGCTGTTGGCTATGGAGAACAGAATGGATTACTCTACTGGATTGTGAAAACTCTTGGGGCTCCA
ACTGGGGGAACAATGGTACTTCCTCATTGAGCGTGAAAGAACATGTGTGGCCTGGCTGCCTGTGCCTC
CTACCCATCCCTCAGGTA

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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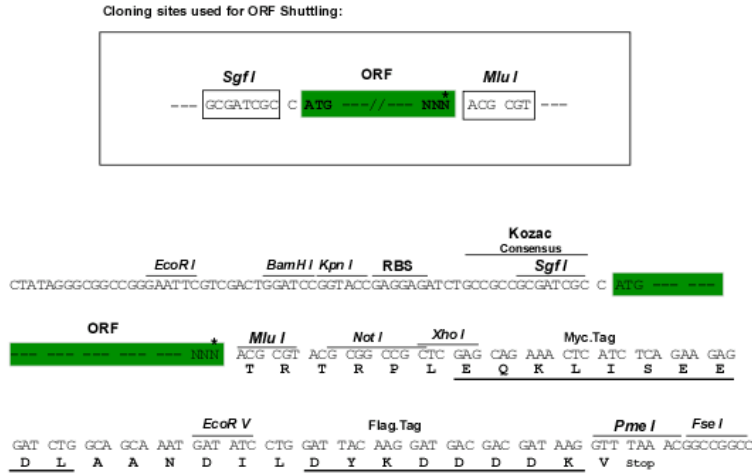
Protein Sequence: >RR213528 representing NM_012939
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MWTALPLL CAGAWLL SAGATAEL TVNAIEKFHFTSWMKQH QKTYSSREYSHRLQVF ANNWRKIQAHNQRN
 HTFKMGLNQFSDMSFAE IKHKYLWSEPQNCSATKSNYL RGTGPYPSSMDWRKGNV VSPVKNQGACGSCW
 TFSTTGALES AVAIASGKMMTLAEQQL VDCAQNFNNHGCGGLPSQAF EYILYKNGIMGEDSYPIYIGKNG
 QCKFNPEKAVAFVKNV VNIITLNDEAAMVEAVAL YNPVSFAFEVTEDFMMYKSGVYSSNSCHKTPDKVNHA
 VLAVGYGEQNGLLYWI VKNWSWGSNWGNNGYFLIERGKNMCGLAACASYP IPQV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

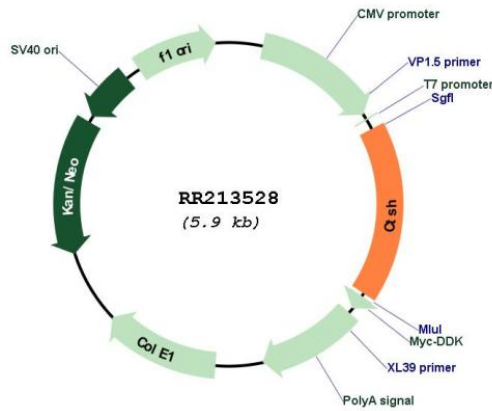
Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_012939

ORF Size:	999 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_012939.2
RefSeq Size:	1496 bp
RefSeq ORF:	1002 bp
Locus ID:	25425
UniProt ID:	P00786
Cytogenetics:	8q31
MW:	37.1 kDa
Gene Summary:	lysosomal protease that plays a role in protein metabolism [RGD, Feb 2006]