

Product datasheet for **RG208275**

Cathepsin W (CTSW) (NM_001335) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cathepsin W (CTSW) (NM_001335) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CTSW
Synonyms:	LYPN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208275 representing NM_001335 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCACTGACTGCCACCCCTCCTGCCTCCTGGCCCTGTTGGTGGCAGGCCTAGCCCAAGGCATCAGAG
GCCCCCTTAGGGCCAGGACCTAGGTCCCCAGCCGCTAGAGCTGAAAGAGGCCTTCAAGTTGTTCCAGAT
CCAGTTCAACCGAGTTACCTGAGCCCAGAAGAGCATGCTCACCGCCTGGACATCTTTGCCACAACCTG
GCCAGGCTCAGAGGCTCAGGAGGAGGACTTGGGCACAGCTGAGTTTGGGTGACTCCATTCAAGTACC
TCACAGAGGAGGAGTTTGGCCAGCTCTATGGCTATCGGAGGGCAGCTGGAGGGTCCCCAGCATGGGCAG
AGAAATAAGGTCTGAAGAGCCAGAGGAGTCACTACCTTTCAAGTGTGACTGGCGGAAGGTGGCCGCGCC
ATCTCACCCATCAAGGACCAGAAAACTGCAACTGCTGCTGGGCCATGGCAGCGGAGGCAACATAGAGA
CCCTGTGGCGCATCAGTTTCTGGGATTTTGTGGACGTCTCCGTGCAGGAAGTGTGGACTGTGGCCGCTG
TGGGATGGTGGCACGGTGGCTTCGTCTGGGACGCTTCACTCAACAAACAGCGGCCTGGCC
AGTGAAAAGGACTACCGTTCCAGGGCAAAGTCAAGAGCCACAGGTGCCACCCCAAGAAGTACCAGAAGG
TGGCCTGGATCCAGGACTTCATCATGCTGCAGAACACGACACAGAATTGGCAGTACCTGGCCACTTA
TGGCCCCATCACCGTGACCCACAGCTTGTGGACCACTGTCTGCTGGTGGGTTTTGGCAGCGTCAAGTCAG
CCCACCACCTGTGACCCACAGCTTGTGGACCACTGTCTGCTGGTGGGTTTTGGCAGCGTCAAGTCAG
AGGAGGGGATATGGGCAGAGACAGTCTCATCGCAGTCTCAGCCTCAGCCTCCACACCCCACTACTG
GATCCTGAAGAACTCCTGGGGGGCCCAATGGGGAGAGAAGGGCTATTTCCGGCTGCACCGAGGGAGCAAT
ACCTGTGGCATACCAAGTTCCCGCTCACTGCCCGTGTGCAGAAACCGGATATGAAGCCCGAGTCTCCT
GCCCTCC

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208275 representing NM_001335
 Red=Cloning site Green=Tags(s)

MALTAHPSCLLALLVAGLAQGI RGPLRAQDLGPQPLELKEAFKLFQIQFNRSYLSPEEHAHRLDIFAHNL
 AQAQRLQEEDLGTAEFGVTPFSDLTEEEFGQLYGYRRAAGVPSMGREIRSEEPESVVPFSCDWRKVAGA
 ISPIKDQKNCNCWAMAAAGNIETLWRISFWDFVDVSVQELLDGCRGCDGCHGGFVWDAFITVLNNSGLA
 SEKDYPFQGVKRAHRCHPKKYQKVAWIQDFIMLQNEHRIAQYLATYGPITVTINMKPLQLYRKGVIKAT
 PTTCDPQLVDHSVLLVGFSGVKSEEGIWAETVSSQSQPQPPHPTPYWILKNSWGAQWGEKGYFRLHRGSN
 TCGITKFLPTARVQKPDMPKRVSCPP

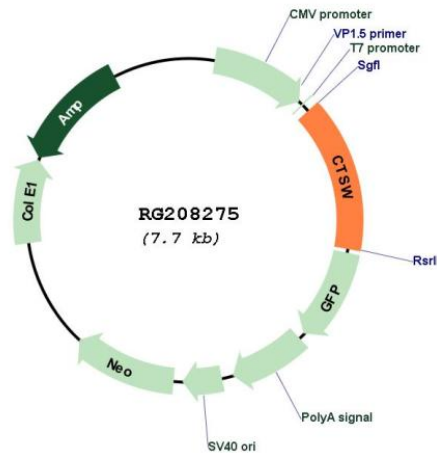
SGPTRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM_001335

ORF Size:	1128 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_001335.3 , NP_001326.2
RefSeq Size:	1327 bp
RefSeq ORF:	1131 bp
Locus ID:	1521
UniProt ID:	P56202
Cytogenetics:	11q13.1
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Lysosome
Gene Summary:	The protein encoded by this gene, a member of the peptidase C1 family, is a cysteine proteinase that may have a specific function in the mechanism or regulation of T-cell cytolytic activity. The encoded protein is found associated with the membrane inside the endoplasmic reticulum of natural killer and cytotoxic T-cells. Expression of this gene is up-regulated by interleukin-2. [provided by RefSeq, Jul 2008]