

## Product datasheet for **RR212662**

### Ctsb (NM\_022597) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ctsb (NM_022597) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ctsb
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR212662 representing NM_022597 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGGTGGTCTTGATCCCTCTCTCTTGCTGCTGGCACTGACCAGTGGCCATGACAAGCCTTCCTTTTC  
ACCCACTGTCGGACGACATGATTAACATATCAACAAACAGAATACAACATGGCAGGCTGGACGCAACTT  
CTACAATGTTGACATAAGCTATCTGAAGAAGCTGTGTGGAAGTCTCTGGGTGGACCAAGCTGCCGGAA  
AGGGTTGGGTTTCAGCGAGGACATAAATCTACCTGAATCCTTTGATGCACGGGAACAGTGGTCCAATTGCC  
CGACCATCGCACAGATCAGAGACCAGGGTCTGTGGCTCTTGTGGCATTGGGGCAGTGAAGCCAT  
GTCTGACCGAATCTGCATTACACCAATGGCCGAGTCAATGTGGAGGTGTCTGCTGAGGACCTGCTTACC  
TGCTGTGGTATCCAGTGTGGGATGGCTGTAATGGTGGCTATCCCTCTGGAGCATGGAAGTCTGGACTA  
GAAAAGGCCTGGTTTCTGGTGGAGTATACAATTCTCATATAGGCTGCTTACCCTACACCATCCCTCCCTG  
TGAACACCATGTCAATGGCTCCCGTCCCCATGCACTGGAGAAGGAGATACTCCAAGTGAACAAGATG  
TGTGAGGCTGGCTACTCCACATCCTACAAGGAAGATAAGCACTATGGGTACACTTCTACAGTGTGTCTG  
ACAGCGAGAAGGAGATCATGGCGAAATCTACAAAATGGCCAGTGGAGGGTGTCTTTACTGTGTTTTTC  
TGACTTCTTGACTTACAATCAGGCGTATACAAGCATGAAGCCGGTGATGTGATGGGAGGCCATGCCATC  
CGCATTCTGGGCTGGGAATAGAGAATGGAGTACCCTACTGGCTGGTAGCAAACCTCTGGAACGTTGACT  
GGGGTGATAATGGTTTCTTTAAATCCTCAGAGGAGAGAACCCTGTGGAATTGAATCAGAAATCGTGGC  
TGAATCCCACGCACTCAGCAGTACTGGGAAGATTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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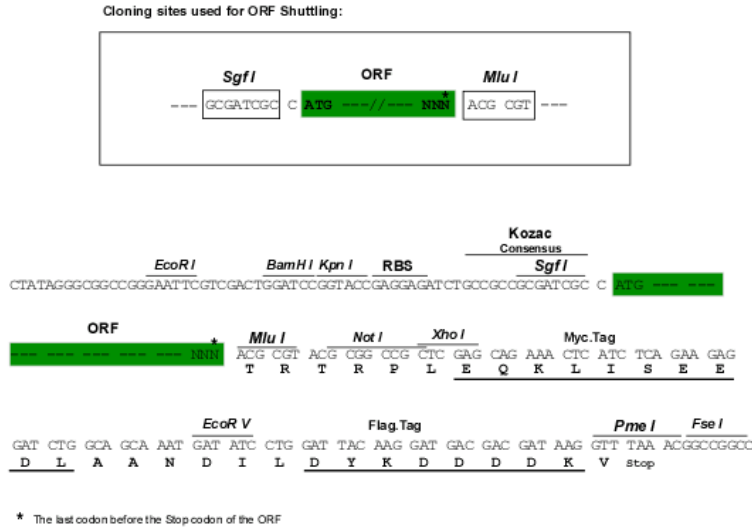
**Protein Sequence:** >RR212662 representing NM\_022597  
 Red=Cloning site Green=Tags(s)

MWWSLIPLSCLLAL TSAHDKPSFHPLSDDMINYINKQNTTWQAGRNFYNVDISYLKCLCGTVLGGPKLPE  
 RVGFSEDLNLPESFDAREQWSNCP TIAQIRDQSGSCGWAFGAVEAMSDRICIHTNGRVNVEVSAEDLLT  
 CCGIQCGDGCNGGYP SGAWNFWTRKGLVSGGVYN SHIGCLPYTIPPCEHHVNGSRPPCTGEGDTPKCNKM  
 CEAGYSTSYKEDKHYGYTSYSVSDSEKEIMAEIYKNGPVEGAFTVFSDFLTYKSGVYKHEAGDVMGGHAI  
 RILGWGIENGVPYWL VANSWNVDWGDNGFFKILRGENHCGIESEIVAGIPRTQYWGFR

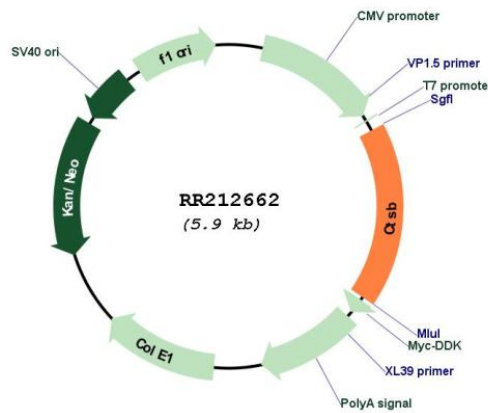
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_022597

<b>ORF Size:</b>	1017 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_022597.2</a> , <a href="#">NP_072119.2</a>
<b>RefSeq Size:</b>	1967 bp
<b>RefSeq ORF:</b>	1020 bp
<b>Locus ID:</b>	64529
<b>Cytogenetics:</b>	15p12
<b>MW:</b>	37.5 kDa
<b>Gene Summary:</b>	lysosomal peptidase that is synthesized as a longer precursor and processed to the mature form [RGD, Feb 2006]