

## Product datasheet for **RR209222**

### Ctse (NM\_012938) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ctse (NM_012938) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ctse
Synonyms:	CEA; CEB; Ctsea
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR209222 representing NM_012938 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAACCTCTCTTCGTGCTGCTGCTGCTGCTGCTGCTCCTGGACCTGGCACAGGCCCAAGGGTGCTGC  
ACAGGGTGCCCTCAGAAGACATCAGTCCCTCCGGAAGAACTACGGGCCAAGGCCAGCTCTCAGACTT  
CTGGAGATCTCATAACTTGGACATGATCGAATTCAGCGAGTCTGTAATGTGGATAAGGGTATCAATGAG  
CCCTCATCAACTACCTGGATATGGAATACTTTGGCACCGTCTCCATCGGCTCCCATCGCAGAACTTCA  
CCGTATCTTTGACACGGGCTCATCCAACCTCTGGGTCCTTCTGTGACTGCACCAGCTCAGCATGCAA  
GGCACACCCGGTGTCCACCCATCGCAGTCCAGCACCTACATGGAGGTAGGGAATCACTTCTCCATCCAG  
TATGGTACTGGGAGCCTGACAGGAATCATTGGAGCTGACCAAGTCTCTGTGGAAGGGTTGACTGTGGAAG  
GCCAGCAATTTGGAGAAAGTGTCAAGGAGCCTGGTCAGACCTTTGTGAATGCGGAGTTTGACGGGATTCT  
GGCCTGGGATACCCCTCATTGGCTGTTGGAGGAGTGACCCAGTGTGATAACATGATGGCCAGAAC  
CTTGTGGCTCTGCCTATGTTTTCTGTCTACTTGAGCAGTGACCCACAAGTGGCTCAGGCAGTGAAGTGA  
CTTTGGAGGCTATGACCCCTCATTTTCTCTGGGAGCCTCAATTGGATCCCAGTCACCAAGCAAGGCTA  
CTGGCAGATTGCCCTGGATGGAATCCAGGTGGGAGACTGTGATGTTCTGCTCTGAGGGCTGCCAGGCC  
ATAGTGGACACAGGGACCTCCCTCATCACTGGCCCCCAAGAAGATCAAACAGCTTCAAGAGGCCATTG  
GGCCACACCCATGGATGGAGAAGACTTGGTGGATGGAATGCAGTTCTGCGGCAGTGGCTTTCAAGGACT  
TGACATTAACCTCCGGCTGGACCCCTCTGGATCCTGGGGATGTCTTCATCCGAAAGTTTTACTCAGTC  
TTTGATCGTGAAATAACCAAGTGGGATTGGCCCCCGCAGTCCCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR209222 representing NM\_012938  
 Red=Cloning site Green=Tags(s)

MKPLFVLLLLLLLLDLAQAQGVLRVPLRRHQSLRKKLRAQGQLSDFWRSHNLDMIEFSESCNVDKGINE  
 PLINYLDMIEYFGTVSIGSPSQNFVIFDTGSSNLWVPSVYCTSSACKAHPVFHPSQSSTYMEVGNHFSIQ  
 YGTGSLTGIIGADQVSVEGLTVEGQQFGESVKEPGQTFVNAEFDGILGLGYPSLAVGGVTPVFDNMAQN  
 LVALPMFSVYLLSSDPQGGSGSELTFGGYDPSHFSGLNWIPVTKQGYWQIALDGIQVGDVVMFCSEGCQA  
 IVDTGTSITGPPKKIKQLQEAIIGATPMDGEDLVDGMQFCGSGFQGLDIQPPAGPLWILGDVYIRKFSYV  
 FDRGNNQVGLAPAVP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

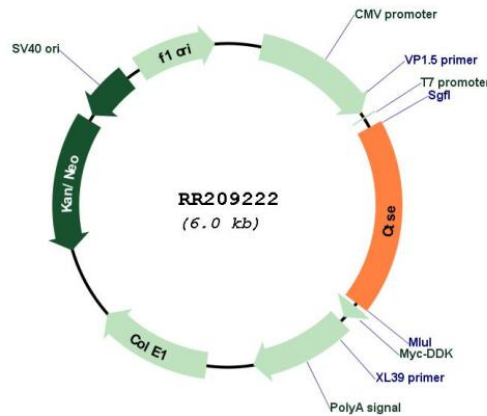
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_012938

<b>ORF Size:</b>	1095 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_012938.1</a> , <a href="#">NP_037070.1</a>
<b>RefSeq Size:</b>	1841 bp
<b>RefSeq ORF:</b>	1098 bp
<b>Locus ID:</b>	25424
<b>UniProt ID:</b>	<a href="#">P16228</a>
<b>Cytogenetics:</b>	13q13
<b>MW:</b>	39.4 kDa
<b>Gene Summary:</b>	intracellular, nonlysosomal aspartic proteinase; may mediate absorption, secretion, and digestion of various cellular components [RGD, Feb 2006]