

Product datasheet for **RG206604**

Cathepsin E (CTSE) (NM_001910) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cathepsin E (CTSE) (NM_001910) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cathepsin E
Synonyms:	CATE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206604 representing NM_001910 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAACGCTCCTTCTTTGCTGCTGGTCTCCTGGAGCTGGGAGAGGCCAAGGATCCCTTCACAGGG
TGCCCTCAGGAGGCATCCGTCCTCAAGAAGAAGCTGCGGGCACGGAGCCAGCTCTCTGAGTTCTGGAA
ATCCATAATTTGGACATGATCCAGTTCACCGAGTCTGCTCAATGGACCAGAGTGCCAAGGAACCCCTC
ATCAACTACTTGGATATGAATACTTCGGCACTATCTCCATTGGCTCCCCACCACAGAATTCACGTGCA
TCTTCGACTGGCTCCTCCAACCTCTGGGTCCCCTCTGTGTACTGCACTAGCCCAGCCTGCAAGACGCA
CAGCAGGTTCCAGCCTTCCAGTCCAGCACATACAGCCAGCCAGGTCATCTTTCTCCATTCAAGTATGGA
ACCGGGAGCTTGTCCGGGATCATTGGAGCCGACCAAGTCTCTGTGGAAGGACTAACCGTGGTTGGCCAGC
AGTTTGGAGAAAGTGTACAGAGCCAGGCCAGACCTTTGTGGATGAGAGTGTGGAATTCTGGGCT
GGGATACCCCTCCTTGGCTGTGGGAGGAGTGACTCCAGTATTTGACAACATGATGGCTCAGAACCTGGTG
GACTTGCCGATGTTTTCTGTCTACATGAGCAGTAACCCAGAAGGTGGTGGGGAGCGAGCTGATTTTTG
GAGGCTACGACCACTCCCATTTCTCTGGGAGCCTGAATGGGTCCCAGTACCAAGCAAGCTTACTGGCA
GATTGCACTGGATAACATCCAGGTGGGAGGCACTGTTATGTTCTGCTCCGAGGGCTGCCAGGCCATTGTG
GACACAGGGACTTCCCTCATCTGGCCCTCCGACAAGATTAAGCAGCTGCAAAAACGCCATTGGGGCAG
CCCCGTGGATGGAGAATATGCTGTGGAGTGTGCCAACCTTAACGTCATGCCGGATGTACCTTACCAT
TAACGGAGTCCCCATACCTCAGCCAACTGCCTACACCCTACTGGACTTCGTGGATGGAATGCAGTTC
TGCAGCAGTGGCTTTCAAGGACTTGACATCCACCTCCAGCTGGGCCCTCTGGATCCTGGGGGATGTCT
TCATTCGACAGTTTTACTCAGTCTTTGACCGTGGGAATAACCGTGTGGGACTGGCCCCAGCAGTCCCC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206604 representing NM_001910
 Red=Cloning site Green=Tags(s)

```
MKTLLLLLLLVLLELGEAQGLHRVPLRRHPSLKKKLRARSQLEFWKSHNLDMIQFTESCSMDQSAKEPL
INYLDMFYFGTISIGSPPQNFTVIFDTGSSNLWVPSVYCTSPACKTHSRFQPSQSSTYSQPGQSFYIYQG
TGSLSGIIGADQVSVEGLTVVGQQFGESVTEPGQTFVDAEFDGILGLGYP SLAVGGVTPVFDNMMAQNLV
DLPMSVYVSSNPEGGAGSELIFGGYDHSFSGSLNWPVTKQAYWQIALDNIQVGGTVMFCSEGCQAIIV
DTGTSLLITGPSDKIKQLQNAIGAAPVDGEYAVECANLNVMPDVTFTINGVPYTLSPYATLLDFVDGMQF
CSSGFQGLDIHPPAGPLWILGDVFIHQFYVDFDRGNRRVGLAPAVP
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001910

ORF Size: 1188 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001910.4](#)

RefSeq Size: 2228 bp

RefSeq ORF: 1191 bp

Locus ID: 1510

UniProt ID: [P14091](#)

Cytogenetics: 1q32.1

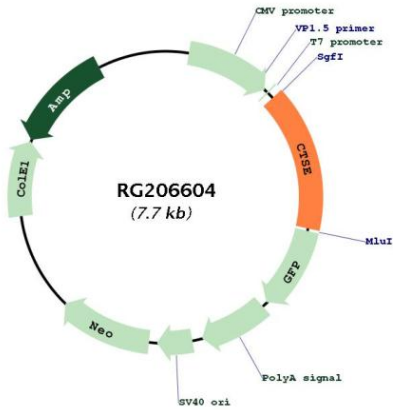
Domains: asp

Protein Families: Druggable Genome, Protease

Protein Pathways: Lysosome

Gene Summary: This gene encodes a member of the A1 family of peptidases. Alternative splicing of this gene results in multiple transcript variants. At least one of these variants encodes a preproprotein that is proteolytically processed to generate the mature enzyme. This enzyme, an aspartic endopeptidase, may be involved in antigen processing and the maturation of secretory proteins. Elevated expression of this gene has been observed in neurodegeneration. [provided by RefSeq, Nov 2015]

Product images:



Circular map for RG206604