

Product datasheet for MR225378

Cst3 (NM_009976) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cst3 (NM_009976) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cst3
Synonyms: Cys; CysC
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR225378 representing NM_009976
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCAGCCCGCTGCGCTCCTTGCTGTTCTGCTGGCCGTCTGGCCGTGGCCTGGGCGGCGACCCCAA
 AACAAAGGCCCGCAATGTTGGGAGCCCCGGAGGAGGCAGATGCCAATGAGGAAGGCGTGGCGGAGCGTT
 GGACTTCGCTGTGAGCGAGTACAACAAGGGCAGCAACGATGCGTACCACAGCCGCCCATACAGGTGGTG
 AGAGCTCGTAAGCAGCTCGTGGCTGGAGTGAATTTTTGGATGTGGAGATGGCCGAACACTACATGTA
 CCAAGTCCAGACAAATTTGACTGACTGTCCTTTCCATGACCAGCCCCATCTGATGAGGAAGGCACTCTG
 CTCCTCCAGATCTACAGCGTGCCTGGAAAGGCACACTCCCTGACAAAATTCAGCTGCAAAAATGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR225378 representing NM_009976
 Red=Cloning site Green=Tags(s)

MASPLRSLLFLLAVLAVAWAATPKQGPRMLGAPEEADANEEGVRRALDFAVSEYNKGSNDAYHSRAIQVV
 RARKQLVAGVNYFLDVEMGRITCTKSQTNLTDCPFHDQPHLMRKALCSFQIYSVPWKGTHSLTKFSCKNA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9026_a02.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_009976

ORF Size: 420 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.

RefSeq: [NM_009976.4](#), [NP_034106.2](#)

RefSeq Size: 748 bp

RefSeq ORF: 423 bp

Locus ID: 13010

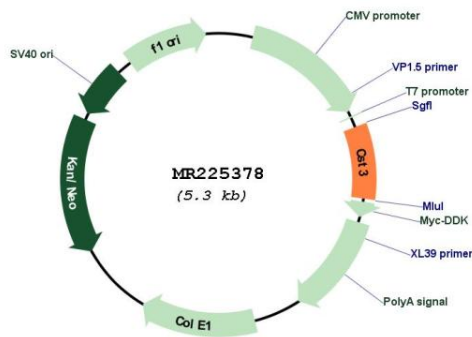
UniProt ID: [P21460](#)

Cytogenetics: 2 73.6 cM

MW: 16 kDa

Gene Summary: The protein encoded by this gene is a cysteine protease inhibitor involved in neurodegenerative and cardiovascular processes. The encoded protein inhibits aggregation of beta-amyloid protein, a hallmark of Alzheimer's disease, so it may be useful as a therapeutic. This protein also may be a biomarker for atherosclerosis. [provided by RefSeq, Aug 2015]

Product images:



Circular map for MR225378