

Product datasheet for **MG225378**

Cst3 (NM_009976) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cst3 (NM_009976) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Cst3
Synonyms: Cys; CysC
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG225378 representing NM_009976
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCAGCCCGCTGCGCTCCTTGCTGTTCTGCTGGCCGTCTGGCCGTGGCCTGGGCGGCGACCCCAA
 AACAAAGGCCCGCAATGTTGGGAGCCCCGAGGAGGCAGATGCGAATGAGGAAGGCGTGGCGGAGCGTT
 GGACTTCGCTGTGAGCGAGTACAACAAGGGCAGCAACGATGCGTACCACAGCCGCCATACAGGTGGTG
 AGAGCTCGTAAGCAGCTCGTGGCTGGAGTGAATTTTTGGATGTGGAGATGGCCGAACTACATGTA
 CCAAGTCCAGACAAATTTGACTGACTGTCCTTTCCATGACCAGCCCCATCTGATGAGGAAGGCACTCTG
 CTCCTTCCAGATCTACAGCGTGCCTGGAAAGGCACACTCCCTGACAAAATTCAGCTGCAAAAATGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG225378 representing NM_009976
 Red=Cloning site Green=Tags(s)

MASPLRSLFLAVLAVAWAATPKQGPRMLGAPEEADANEEGVRRALDFAVSEYNKGSNDAYHSRAIQVV
 RARKQLVAGVNYFLDVEMGRRTCTKSQTNLTDCPFHDQPHLMRKALCSFQIYSVPWKGTSLTKFSCKNA

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

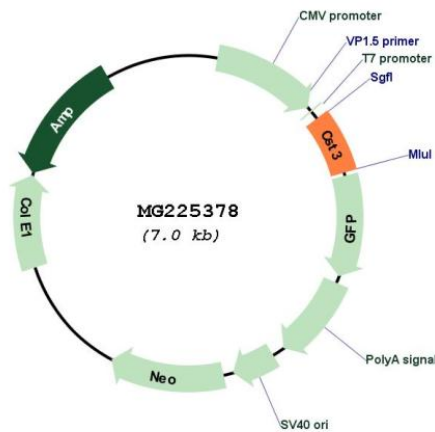


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Cloning Scheme:



Plasmid Map:



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:	<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_009976.3 , NP_034106.2
RefSeq Size:	748 bp
RefSeq ORF:	423 bp
Locus ID:	13010
UniProt ID:	P21460
Cytogenetics:	2 73.6 cM
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]