

## Product datasheet for **MC205550**

### Cst10 (NM\_021405) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cst10 (NM\_021405) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Cst10  
**Synonyms:** DD72  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC048364  
TTTCTTCTGCTCCTCTAAAGCTTCATCAACCATGGCAAGTTTGCTGAGCCCCTCGATGCCTGTGTGG  
CTGCTGTGGCCTTGACACTGACCCTGGCTGTGATCCCTGAAGCCAGTACTAATGCTGAAGCCAAGCAGGT  
GGTATTAGGTGGAGTGGAGCCAGCTGACCCTAAGGATAAAGGAGGTGCAGAAAGTGGTAAAGTTTGCCTGT  
AGAACCTACAATGATATGGACAATGACCTGTATCTTAGCAAGCCAATACGACTGATGAGCCGACCCAGC  
AGGTTGTGGCTGGGAAGAACTACTACTTAAAAATTGAGCTAGGCCGAACCACATGTACAAAACTGAGTC  
TAATTTGGTTGATTGTCCCTTCAATGAACAGCCAGATCAGCAGAAGAGGGTCATCTGTAATTTCCAGATC  
AACGTTGCACCTTGGCTGAACAAGATGTCCATGACAACTTCAACTGTTACAATTTCTGAGGATATATGT  
CAGGCTACACTTCTGCTGATTGTCTTACTTTTACTCAATCTTATCCTTAAGTTCTCCTTTCTCAGAC  
AGAGATCTTAGTCCCAAAGTTGTCTCTTGAGAATGATAGCACCAAGAGAAAAGTAGAGATAGGCCCTGC  
ACACCTAAGTGACAGTTCCTTGTCTTTTCTCATCTACTTGTTTTTCAAAGGCCACTGTTTCATTATTGC  
TCAATAAAAAAATAGCCATAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_021405

**Insert Size:** 447 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).



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**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:** [BC048364](#), [AAH48364](#)

**RefSeq Size:** 740 bp

**RefSeq ORF:** 447 bp

**Locus ID:** 58214

**UniProt ID:** [Q9JIM84](#)

**Cytogenetics:** 2 G3

**Gene Summary:** May play a role in the last steps of the chondrocyte differentiation pathway as an inducer of maturation (PubMed:13679380). Induces chondrocyte calcification during endochondral ossification by playing a role in the transcriptional inhibition of ENPP1, a generator of pyrophosphate which inhibits calcification (PubMed:16680148). Possibly impairs the binding of a transcription factor to the ENPP1 promoter (PubMed:16680148). Unlike other cystatins, does not have thiol protease inhibitor activity (PubMed:16680148).[UniProtKB/Swiss-Prot Function]