

Product datasheet for MC227663

Cast (NM_001301160) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cast (NM_001301160) Mouse Untagged Clone
Tag: Tag Free
Symbol: Cast
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC227663 representing NM_001301160
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGGCCAGTTTCTGTCTTCTACTTTCTGGGAGGGCTCACCTGCTGCAGTGTGGCAAGAAAAGCTTCGTCG
AGGGTGAACGAAAGGGAGCTGGAGAAACCATCCCTATCCTCCAGGACCATGCAAAAAGCAAAAAGAAGAAA
GCAGGAGAAGTGTGGTGAAGATGAGGACACAGTCCAGCTGAGTACAGGTTAAAACAGCAAAGGATAAA
GATGGAAAACCACTATTGCCAGAGCCTGAAGAAACATCTAAGAGCCTGAGTGAAGTGGAGCTGATTGGGG
AGCTTTCAGCAGATTTTGACCGATCTACATATCAAGACAAACCATCTACGCCAGCTGAAAAGAAATCCAA
TGACACATCCCAAACCTCCGGGGGAGACTGTGCCTCGGGCCTCCATGTGCAGTATACGGTCAGCGCCA
CCCAAACCTAGCATCCTTGAAGGGCGTGGTACCAGAAGATGCTGTTGAAACCTTGGCTGGAAGCCTGGGGA
CAAGGGAAGCAGATCCAGAACATGAAAAAAGTGTGGAGGATAAAGTCAAGGAGAAAGCTAAAGAAGAAGA
GCATGAAAAACTTGGTAAAAAGAAGAAACAGTGCCTCCTGATTATCGACTAGAAGAAAGTCAAGGATAAG
GATGGAAAACCACTCCTGCCAAAGAATCCAGGAACAACCTGCACCCTAAGCGATGACTTCCTTCTTG
ATGCCTTGTCTCAGGACTTCTCCAGTCCGGCAAACATATCGTCTCTTGAATTTGAAGATGCCAAACTTTC
TGCTGCCATTTCTGAAGTAGTTTCTCAGACACCTGCTCCAAGCACCCATGCAGCAGCTCCACTGCCTGGC
ACTGAGCAGAAAGACAAAGAAGTGGATGATGCCTTGGATGAACTTCTGACAGTCTTGGACAAAGGCCGC
CTGATCCAGATGAGAACAACCACTGGATGACAAAGTGAAGGAGAAAAATCAAACCAGAGCATAGCGAGAA
ACTGGGAGAAAGAGACGACACCATCCCCCTGAATACAGGCATCTCTTGGATAATGATGGGAAGGACAAA
CCAGAGAAGCCACCGACTAAGAAAACAGAGAAACCTGATCAGGACCGGGACCCCAATTGATGCCCTCAG
AAGATTTGGATAGCTGCCCTCACTACAGAGACCTCAAAGAATACAGCAAAGGGGAAGAGCAAGAAGAC
TTCAAGTTCCAAGCATCCAAGGACGGAGAGAAAACAAGGACTTCCAAGAAGACAGAGGAAGTGTCC
AAGCCAAAGCTAAAGAAGATGCAAGACACAGT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



[View online »](#)

ACCN:	NM_001301160
Insert Size:	1296 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001301160.1</u> , <u>NP_001288089.1</u>
RefSeq Size:	2928 bp
RefSeq ORF:	1296 bp
Locus ID:	12380
UniProt ID:	<u>P51125</u>
Cytogenetics:	13 C1
Gene Summary:	<p>This gene encodes an inhibitor of the calcium-dependent cysteine protease, calpain. This protein plays roles in multiple processes, including apoptosis, cell cycle regulation, and membrane fusion. Multiple protein isoforms exist which contain unique N-terminal domains, and multiple inhibitory domains that share homology with each other. Some isoforms may be tissue-specific. Two different pseudogenes of this gene are found on chromosome 19. [provided by RefSeq, Jul 2014]</p> <p>Transcript Variant: This variant (7) represents use of an alternate promoter and therefore differs in the 5' UTR and 5' coding region, compared to variant 1. These differences cause translation initiation at an alternate start codon and result in an isoform (7) with a shorter N-terminus. The resulting protein (isoform 7) has a shorter and distinct N-terminus and is shorter than isoform 1.</p>