

Product datasheet for **MC228724**

Cast (NM_001301155) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cast (NM_001301155) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cast
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC228724 representing NM_001301155
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTACCACAGAGACTAAGGCAATTCAGTAAACAACAGTTGGAAGGACCTGACCAGAAAAGACCCA
 GAGAACAGGCTGTGAAAACAGAGTCTAAGAAACCAACAATCAAGTGAAGCAACCTGTGGTTCACGAGAAAA
 GTCAAAAGGAGGGCCAAAAGGAAGGGTCAGAGCCAAAAATCTCCGAAGCACACATCAAGTACAGGAAGC
 AAGCATGCTCATAAAGAAAAAGCACTTTCCAGATCAAATGAACAGATGGTGTGAGAGAAACCATCAGAAT
 CAAAGACAAAATTTCAAGATGTTCTCCAGCTGGTGGAGAGAGTGTGGCTGGAGGTGGGACTGTGGCCAC
 TGCCTTGGACAAAGTGGTTGGTAAGAAAAAGAACAGAAACCATTACACCAGCTTACCTGTGCAGTCC
 ACACCGAGCAAGCCATCTGACAAGTCAGGCATGGATGCTGCCTGGATGACCTGATAGACACCTTAGGTG
 GACATGAAGATACTAACAGAGATGATCCACCATACTGGACCAGTAGTTTTGGACCAATGATTCTAC
 CTACCTTGAGGCACTGGGTATAAAAAGAAGGACTATTCTCCAGAGTATAGGAACTTTTGGAAAAAAT
 GAAGGGATCACACAACCTCTCCAGACTCTCTAAACCTATGGGGACTGACCAGGCTATAGATGCCTTGT
 CATCTGATTTACCTGTAGTTCTCCAACCTGGAAGCAAAGTGAGAAGAGAAGTCTACTGGGAAATTTT
 CAAAGCTCAGTCTGCAGGAGTGACCAGAAGTTCTGTTCCCCCAAGGAGAAGAAAAGGAAGGTGGAAGAG
 GAGGTCATAAATGATCAAGCACTTCAGGCTCTGTGAGATTCAGTGGGCACCCGGCAGCCAGATCTCCGA
 GCCACGTTAGCCAAGCTGAACAAGTCAAAGAGGCCAAAAGCAAAGAAGAAAGGCAGGAGAAGTGTGGTGA
 AGATGAGGACACAGTCCCAGCTGAGTACAGGTTAAAACCAGCAAAGGATAAAGATGGAAAACCACTATTG
 CCAGAGCCTGAAGAAACATCTAAGAGCCTGAGTGAAGTGGAGCTGATTGGGGAGCTTTTCCAGAGATTTT
 ACCGATCTACATATCAAGACAAACCATCTACGCCAGCTGAAAAGAAATCCAATGACACATCCCAACTCC
 TCCGGGGGAGACTGTGCCTCGGGCCTCCATGTGCAGTATACGGTACGGCCACCCAACTAGCATCCTTG
 AAGGGCGTGGTACCAGAAGATGCTGTTGAAACCTTGGCTGGAAGCCTGGGACAAGGGAAGCAGATCCAG
 AACATGAAAAAAGTGTGGAGGATAAAGTCAAGGAGAAAGCTAAAGAAGAAGAGCATGAAAAAAGTGGTGA
 AAAAGAAGAAACAGTGCCTCCTGATTATCGACTAGAAGAAGTCAAGGATAAGGATGGAAAACCACTCCTG
 CCCAAAGAATCCCAGGAACAACCTGCACCCTTAAGCGATGACTTCTTCTTGTGATGCCTTGTCTCAGGACT
 TCTCCAGTCCGGCAAACATATCGTCTCTTGAATTTGAAGATGCCAACTTTCTGCTGCCATTTCTGAAGT
 AGTTTCTCAGACACCTGCTCCAAGCACCATGCAGCAGCTCCACTGCCTGGCACTGAGAAAGACAAAGAA
 CTTGATGATGCCTGGATGAACCTTCTGACAGTCTTGGACAAAGGCCGCTGATCCAGATGAGAACAAC
 CACTGGATGACAAAGTGAAGGAGAAAATCAAACCAGAGCATAGCGAGAACTGGGAGAAAGAGACGACAC
 CATCCCCCTGAATACAGGCATCTCTTGATAATGATGGGAAGGCAAACCAGAGAAGCCACCGACTAAG
 AAAACAGAGAAACCTGATCAGGACCGGGACCCATTGATGCCCTCTCAGAAGATTTGGATAGCTGCCCT
 CAACTACAGAGACCTCAAAGAATACAGCAAAGGGGAAGAGCAAGAAGACTTCAAGTTCCAAAGCATCCAA
 GGACGGAGAGAAAAAAAGGACTCTTCCAAGAAGACAGAGGAAGTGTCCAAGCCAAAGGCTAAAGAAGAT
 GCAAGACACAGT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001301155

Insert Size: 2115 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_001301155.1</u> , <u>NP_001288084.1</u>
RefSeq Size:	3893 bp
RefSeq ORF:	2115 bp
Locus ID:	12380
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 (3) 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 a downstream start codon and result in an isoform (3) with a shorter N-terminus. This variant (3) also uses an alternate in-frame splice site in the coding region, compared to variant 1. The resulting protein (isoform 3) has a shorter N-terminus and is shorter than isoform 1.</p>