

Product datasheet for **MC228935**

Cast (NM_001301153) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cast (NM_001301153) 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: >MC228935 representing NM_001301153
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCCAGCCCAGCCGAAGCCTGCCGCCTCTCCAGGCCAGTCGCGCGCGGCAGCTCGCCACACCC
 AGGAGCATGTTAATGAAAAGAATTGGATCATCTTCTAAACCAGGAGAAAAGAAAGGATCCGATGAGAA
 AAAAGCAGCAAGTTGGGGAGCAGTCAGCCTTCCAGACCACATGTTGGTGAAGCTGCCACAGCCACCAAG
 GTGACAGCTTCTCTGCTGCCACCAGCAAGTCCCCAGCATGAGTACCACAGAGACTAAGGCAATCCAG
 TAAACAAACAGTTGGAAGGACCTGACCAGAAAAGACCCAGAGAACAGGCTGTGAAAACAGAGTCTAAGAA
 ACCACAATCAAGTGAGCAACCTGTGGTTCACGAGAAAAAGTCAAAGGAGGGGCCAAAGGAAGGGTCAGAG
 CCCAAAAATCTCCGAAGCACACATCAAGTACAGGAAGCAAGCATGCTCATAAAGAAAAAGCACTTTCCA
 GATCAAATGAACAGATGGTGTGAGAAAACCATCAGAATCAAAGCAAAAATTTCAAGATGTTCTTCAGC
 TGGTGGAGAGAGTGTGGCTGGAGGTGGGACTGTGGCCACTGCCTTGACAAAAGTGGTTGGTAAGAAAAAA
 GAACAGAAAACCATCACACCAGCTTACCTGTGCAGTCCACACCGAGCAAGCCATCTGACAAGTCAGGCA
 TGGATGCTGCCTTGATGACCTGATAGACACCTTAGGTGGACATGAAGATACTAACAGAGATGATCCACC
 ATATACTGGACCAGTAGTTTTGGACCCAATGTATTCTACCTACCTTGAGGCACTGGGTATAAAAAGAGGG
 ACTATTCCTCCAGAGTATAGGAACTTTTGGAAAAAATGAAGGGATCACACAACCTCTTCCAGACTCTC
 CTAACCTATGGGGACTGACCAGGCTATAGATGCCTTGTGATCTGATTTACCTGTAGTTCTCCAAGTGG
 AAAGCAAAGTGAGAAAGAGAAGTCTACTGGGAAATTTCAAAGCTCAGTCTGCAGGAGTGACCAGAAGT
 TCTGTTCCCCCAAGGAGAAGAAAAGGAAGGTGGAAGAGGAGGTGATAAATGATCAAGCACTTCAGGCTC
 TGTGAGATTCAGTGGGCACCCGGCAGCCAGATCCTCCGAGCCAGTTAGCCAAGTGAACAAAGTCAAAGA
 GGCAAAAGCAAAAAGAAGAAAGGCAGGAGAAGTGTGGTGAAGATGAGGACACAGTCCCAGCTGAGTACAGG
 TTAACCAGCAAAAGGATAAAGATGAAAAACCACTATTGCCAGAGCCTGAAGAAACATCTAAGAGCCTGA
 GTGAGTCGGAGCTGATTGGGGAGCTTTCAGCAGATTTTGACCGATCTACATATCAAGACAAACCTCTAC
 GCCAGCTGAAAAGAAATCCAATGACACATCCCAAACCTCCTCCGGGGGAGACTGTGCCTCGGGCCTCCATG
 TGCAGTACGGTCAGCGCCACCCAACTAGCATCCTTGAAGGGCGTGGTACCAGAAGATGCTGTTGAAA
 CCTTGGCTGGAAGCCTGGGGACAAGGGAAGCAGATCCAGAACATGAAAAAAGTGGAGGATAAAGTCAA
 GGAGAAAGCTAAAGAAGAAGAGCATGAAAAACTGGTGAAGAAAGAAACAGTGCCTCCTGATTATCGA
 CTAGAAGAAGTCAAGGATAAGGATGAAAAACCACTCCTGCCAAAGAATCCAGGAACAAGTTCACCCCT
 TAAGCGATGACTTCCTTCTTGATGCCTTGTCTCAGGACTTCTCCAGTCCGGCAAACATATCGTCTCTTGA
 ATTTGAAGATGCCAACTTTCTGCTGCCATTTCTGAAGTAGTTTCTCAGACACCTGCTCCAAGCACCCAT
 GCAGCAGCTCCACTGCCTGGCACTGAGCAGAAAAGACAAAGAAGTTCATGATGCCTTGGATGAACTTTCTG
 ACAGTCTTGGACAAGGCCCGCTGATCCAGATGAGAACAACCACTGGATGACAAAGTGAAGGAGAAAAAT
 CAAACCAGAGCATAGCGAGAACTGGGAGAAAGAGACGACACCATCCCCCTGAATACAGGCATCTCTTG
 GATAATGATGGGAAGGACAAACCAGAGAAGCCACCGACTAAGAAAACAGAGAACTGATCAGGACCGGG
 ACCCCATTGATGCCCTCTCAGAAGATTTGGATAGCTGCCCTCACTACAGAGACCTCAAAGAATACAGC
 AAAGGGGAAGAGCAAGAAGACTTCAAGTTCCAAGCATCCAAGGACGGAGAGAAAAACAAAGGACTTTCC
 AAGAAGACAGAGGAAGTGTCCAAGCCAAAGGCTAAAGAAGATGCAAGACACAGT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001301153
Insert Size: 2367 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001301153.1</u> , <u>NP_001288082.1</u>
RefSeq Size:	4165 bp
RefSeq ORF:	2367 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 (1) represents the longest transcript and encodes the longest isoform (1).</p>