

Product datasheet for **MC200735**

Cast (BC010603) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cast (BC010603) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cast
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC010603
 GCAGTCGTCCCCTAAACCAAGCTGAGGCCAGTCGTCATACTCTGAGTGACAGCTTCTCTGCTGCCACCA
 GCAAGTCCCCCAGCATGAGTACCACAGAGACTAAGGCTGTGAAAAACAGAGTCTAAGAAACCAATCAAG
 TGAGCAACCTGTGGTTCACGAGAAAAAGTCAAAAGGAGGGCCAAAGGAAGGTCAGAGCCCCAAAATCTT
 CCGAAGCACACATCAAGTACAGGAAGCAAGCATGCTCATAAAGAAAAAGCACTTTCAGATCAAATGAAC
 AGATGGTGTCCAGAGAAACCATCAGAATCAAAGACAAAAATTTCAAGATGTTCCCTTCAGCTGGTGGAGAGAG
 TGTGGCTGGAGGTGGACTGTGGCCACTGCCTTGGACAAAAGTGGTGGTAAGAAAAAGAACAGAAACCA
 TTCACACCAGCTTACCTGTGCAGTCCACACCGAGCAAGCCATCTGACAAGTCAGGCATGGATGCTGCCT
 TGGATGACCTGATAGACACCTTAGGTGGACATGAAGATACTAACAGAGATGATCCACCATATACTGGACC
 AGTAGTTTTGGACCCAATGTATTCTACCTACCTTGGGACTGGGTATAAAAAGAGGGACTATTCCTCCA
 GAGTATAGGAAACTTTTGGAAAAAATGAAGGGATCACACAACCTCTTCCAGACTCTCTAAACCTATGG
 GGACTGACCAGGCTATAGATGCCTTGTCTATCTGATTTTACCTGTAGTTCTCCAAGTGAAGCAAGTGA
 GAAAGAGAAGTCTACTGGGAAATTTTCAAAGCTCAGTCTGCAGGAGTGACCAGAAGTTCTGTTCCCCC
 AAGGAGAAAGAAAGGAAGGTGGAAGAGGAGTCAAAATGATCAAGCACTTCCAGGCTCTGTCAGATTCAC
 TGGGCACCGGCAGCCAGATCCTCCGAGCCACGTTAGCCAAGCTGAACAAGTCAAAGAGGCAAAAAGCAA
 AGAAGAAAGGCAGGAGAAGTGTGGTGAAGATGAGGACACAGTCCCAGCTGAGTACAGGTTAAAACAGCA
 AAGGATAAAGATGAAAAACCACTATTGCCAGAGCCTGAAGAAACATCTAAGAGCCTGAGTGAAGTCCGAGC
 TGATTGGGGAGCTTTCAGCAGATTTTGACCGATCTACATATCAAGACAAACCATCTACGCCAGCTGAAAA
 GAAATCCAATGACACATCCCAAACCTCCTCCGGGGGAGACTGTGCCTCCGGCCTCCATGTGCAGTATACGG
 TCAGCGCCACCCAACTAGCATCCTTGAAGGGCGTGGTACCAGAAGATGCTGTTGAAACCTTGGCTGGAA
 GCCTGGGGACAAGGAAGCAGATCCAGAACATGAAAAACTGTGGAGGATAAAGTCAAGGAGAAAGCTAA
 AGAAGAAGAGCATGAAAAACTTGGTAAAAAGAAGAAACAGTGCCTCCTGATTATCGACTAGAAGAAGTC
 AAGGATAAAGATGAAAAACCACTCCTGCCAAAGATCCCAGGAACAACCTTGCACCCTTAAAGCGATGACT
 TCCTTCTTGATGCCTTGTCTCAGGACTTCTCCAGTCCGGCAACATATCGTCTCTTGAATTTGAAGATGC
 CAAACTTTCTGCTGCCATTTCTGAAGTAGTTTCTCAGACACCTGCTCCAAGCACCATGCAGCAGCTCCA
 CTGCCTGGCACTGAGCAGAAAGACAAAGAACTTGATGATGCCTTGGATGAACTTTCTGACAGTCTTGGAC
 AAAGGCCCGCTGATCCAGATGAGAACAAACCACTGGATGACAAAGTGAAGGAGAAAATCAAACCAGAGCA
 TAGCGAGAAACTGGGAGAAAGAGACGACACCATCCCCCTGAATACAGGCATCTCTGGATAATGATGGG
 AAGAAACCTGATCAGGACCGGGACCCCATTTGATGCCCTCTCAGAAGATTTGGATAGCTGCCCTCAACTA
 CAGAGACCTCAAAGAATACAGCAAAGGGGAAGAGCAAGAAGACTTCAAGTTCAAAGCATCAAAGGACGG
 AGAGAAAACAAAGGACTTTCAAAGAAGACAGAGGAAGTGTCCAAGCCAAAGGCTAAAGAAGATGCAAGA
 CACAGTTAATGAATTTGGTATCTGAATAGAAATTCCTCAGCTGGTGGATGGTACTTTTGAAGAACAAA
 GGCTTTGATGACAGTTTTTCTGGGTGGTTTCTGGACAGTGGTATTTGTTATGTCTTTTGCATCTTAAA
 CACTGAGTTGTTATTCTTTCCAGAACGAAAATGAATTTGTCTGCTTACCTGTGTTCTGTATTGAGTAT
 TGATAAATTCAAAGATTTTAAATTTGCCCTTAGATGGGAGAAGGAAGCTTTATATTTGTAAGAAATATAT
 TTGATAGTTTCTTAAACACCAAAAAATCCCAGAAAGCCTTTACAAACCTTTGCACCTTATATATACAGTG
 CCTGTAATCTCATTAGTATTTTGGTTTGCACATAAATTTTTAGCATTGAAAAATAATGCTCCCAAC
 TTTTGTGAGTATTTTGAATTTCTATTATGTCTTTTCTCAGCTTTGATGATCTTTGGGTTAATGTTGA
 TAAGTCAAACATGAAATATTGTATACTCGGTGTATAACTTTTTGGGGATGCTAATAATAAATTAATGAT
 AGATGACCCAAGTAAACCTTGGGAGCATCAATCTCAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: BC010603

Insert Size: 2025 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).
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>BC010603</u> , <u>AAH10603</u>
RefSeq Size:	2712 bp
RefSeq ORF:	2025 bp
Locus ID:	12380
Cytogenetics:	13 C1
Gene Summary:	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]