

Product datasheet for **RN200416**

Cast (NM_053295) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cast (NM_053295) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Cast
Synonyms:	MGC108997
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN200416 representing NM_053295
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTC**CCCGCCCGCCCGCCG**AGCCCGCCGCCTCTCCAGGCCCGCGCGGGCGGCAGCTAGCCACACC
 AGGAGCATGTTAATGAAAAGAATATTGGATCATCTTCTAAACCAGCAGAAAAGAAAGGATCTGATGAGGT
 GACAGTTCCTCTGCTGCCACTGGCACATCTCCAGAATGAGTACCACAGGAGCTAAGGCTGTGAAAATA
 GAGTCTGAGAAGTCAAAATCAAGT**GAGCCACCTGTGATTCATGAGAAAAAGCCAAAAGGAAAGCCAAAAGG**
 AAGGGTCAGAGCCCCAACTCTTCTAAGCATGCATCAGATACAGGAAGTAAGCATGCTCACAAGAAAA
 AGCACTTCCAGATCAAATGAGCAGATAGTGT**CAGAGAAATCATCAGAATCAAAGACAAAATTTCAAGAT**
 GCTCCTTCTGCTGATGGAGAGAGTGTGGCTGGAGGTGTGACTGTGGCCACTGCCTCAGACAAGGTGGTTG
 TTAAGAAAAAAGAGAAGAAATCATTAAACACCTACTTTACCTATGGAGTCCACACTAAACAAGCTATCTGA
 CAAGTCAGGCGTGAATGTGCTTTGGATGACCTGATAGACACCTTAGGTGAATGTGAAGATACTAACAA
 GATGATCCACCATATACTGGACCAGTAGTTCTGGACCCAATGGATTCTACCTACCTTGAGGCACTGGGTA
 TAAAAGAAGGGACTATTCTCCAGAGTATAGGAACTTCTGGAGAAAAATGAAGCTATCACAGGACCTCT
 TCCAGATTCTCCTAAACCTATGGGAATCGACCATGCTATAGATGCCTTGTCTATCTGATTTACCTGTAGC
 TCTCCAAGTGGAAAGCAAAGTGAAGAGAGAAAGTCTACTGGGAAAGTTCGAAAGCTCAGTCTGCAGGAG
 TGACCAGAAGTGTCTTCTCCCGAGGAGAAGAAAGGAAAGTGAAGAGGAGGTGATGAATGATCAAGC
 CCTGCAGGCTCTGT**CAGATTCAGTGGCACCCGGCAGCCAGCCCTCAGAGCCATCTTAGGCAAGCCAAA**
 CAAGTCAAAGAGGCAAAAGCAAAAGAAGAAAGGCAAGGAGAAATGTGGTGAAGATGAGGACACAGTACCTG
 CTGAGTACAGGTTAAACCAGCCAAGGATAAAGATGGA**AAACCACTATTGCCAGAACCTGAAGAAACATC**
 TAAGTGCCTGAGTGAAGTCAAGAGCTGATTGGGGAGCTTTCAGCAGATTTTGTCCAACCTACATATCAAGAA
 AAACCATCTATGCCAGCTGCAAAAATAAAGAAGGGCGTAGTGCCAGATGATGCTGTAGAAACCTTGCTA
 GAAGCCTGGGACAAGGAAAGAAGATCCAGAAGATGAAAATCTCTGGTGGATAAAGTCAAGGAGAAAGC
 TAAAGAAGAAGATCATGAAAACCTGGTGA**AAAAGAAGAAACAATTCCTCCTGATTATCGACTAGAAATA**
 GTCAAGGATAAGGATGGAAAACCGCTCTGCCAAAAGAAGCCGAGGAACAACCTCCACCCTTAAGCGATG
 ACTTCTTCTTGATGCATTGTCTCAGGACTTCTCCAGTCTGCAACATATTGTCTCTTGGTTTTGAAGA
 TGCCAAACTTTCTGCTGTGTTTCTGAAACAGTTTCCAGGTGCCTGCTCAAGCAACCACACAGCAGCC
 CCACCGCCTGGCACTGAGAGGAGAGACAAGA**ACTCGATGATGCCTTGGTGAACCTTTCTGACAGTCTTG**
 GACAAAGACAGCCTGATCCAGATGAGAACA**AACTAGATGATAAAGTAAAGGAAAAAATCAAAGCAGA**
 GCATAGCGAGAACTGGGAGAAAGAGACACACCATCCCCCTGAATATAGGCATCTCCTGGATAATGAT
 GGGAAAGCAAAACCAGAGAAGCCACTGACA**AAACACAGAGAAGCCTGGTCAAGGACAGGACCCCATTG**
 ATGCCCTCTCAGAAGACTTGGATAGCTGCC**CCCAACTACAGAGACTTCACAGAAACAACAAGGAGAA**
 GGGTAAGAAGACTTCAAGTTC**CAAAGCATCCAAGAATGAAGAGAAAAACAAGGATTCCTCCAAGAAGACA**
 GAGGAAGTGCCCAAGCCAAGGTGGATGAAGATGCAACA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_053295
Insert Size: 2142 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>NM_053295.2</u> , <u>NP_445747.2</u>
RefSeq Size:	4649 bp
RefSeq ORF:	2142 bp
Locus ID:	25403
UniProt ID:	<u>P27321</u>
Cytogenetics:	2q11
Gene Summary:	inhibitor of calpain; degradation is required for myoblast fusion; exists in multiple alternatively spliced isoforms [RGD, Feb 2006] Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).