

Product datasheet for **RN200417**

Cast (NM_001033715) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cast (NM_001033715) 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: >RN200417 representing NM_001033715
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTC**CCGCGCCGCGCCGAGCCCGCCGCTCTTCCAGGCCCGCGCGGGCGGCAGCTAGCCACACC**
 AGGAGCATGTTAATGAAAAGAATTGGATCATCTTCTAAACCAGCAGAAAAGAAAGGATCTGATGAGGT
 GACAGTTCCTCTGCTGCCACTGGCACATCTCCAGAATGAGTACCACAGGAGCTAAGGCTGTGAAAATA
 GAGTCTGAGAAGTCAAAATCAAGT**GAGCCACCTGTGATTCATGAGAAAAAGCCAAAAGGAAAGCCAAAGG**
 AAGGGTCAGAGACAAAATTTCAAGATGCTCTTCTGCTGATGGAGAGAGTGTGGCTGGAGGTGTGACTGT
 GGCCACTGCCTCAGACAAGTGGTTGTTAAGAAAAAGAGAAGAAATCATTAACACCTACTTTACCTATG
 GAGTCCACTAAACAAGCTATCTGACAAGTCAGGCGTGAATGCTGCTTTGGATGACCTGATAGACACCT
 TAGGTGAATGTGAAGATACTAACAAGATGATCCACCATACTGGACCAGTAGTTCTGGACCCAATGGA
 TTCTACCTACCTTGAGGCACTGGGTATAAAAGAAGGGACTATTCTCCAGAGTATAGGAACTTCTGGAG
 AAAAATGAAGCTATCACAGGACCTTCCAGATTTCTCTAAACCTATGGGAATCGACCATGCTATAGATG
 CCTTGTCATCTGATTTACCTGTAGCTCTCCAACCTGGAAGCAAACCTGAGAAAGAGAAGTCTACTGGGGA
 AAGTTCGAAAAGCTCAGTCTGCAGGAGTGACCAGAAGTGCTGTTCTCCCGAGGAGAAGAAAAGGAAAGTA
 GAAGAGGAGGTCATGAATGATCAAGCCCTGCAGGCTCTGTGAGTTCCTGGGCACCCCGGCAGCCAGACC
 CTCAGAGCCATCTTAGGCAAGCCAAACAAGTCAAAGAGGCAAAGCAAAGAAAGAAAGGCAAGGAGAAATG
 TGGTGAAGATGAGGACACAGTACCTGCTGAGTACAGGTTAAAACCAGCCAAGGATAAAGATGGAAAACCA
 CTATTGCCAGAACCTGAAGAAACATCTAAGTGCCTGAGTGAGTCAGAGCTGATTGGGGAGCTTT**CAGCAG**
 ATTTTGTCCAACCTACATATCAAGAAAAACCTCTATGCCAGCTGCAAAAATAAAGAAGGGCGTAGTGCC
 AGATGATGCTGTAGAAACCTTGGCTAGAAAGCCTGGGGACAAGGAAAGAAGATCCAGAAGATGAAAAATCT
 CTGGTGGATAAAGTCAAGGAGAAAGCTAAAGAAGAAGTCAAGAAAACTTGGTGAAGAAAGAAACAA
 TTCCTCTGATTATCGACTAGAAATAGTCAAGGATAAAGGATGGAAAACCGCTCCTGCCAAAAGAGCCGA
 GGAACAACCTCCACCCTAAGCGATGACTTCTTCTTGTGATGCAATTGTCTCAGGACTTCTCCAGTCTGCA
 AACATATTGTCTTGGTTTTGAAGATGCCAACTTTCTGCTGCTGTTTCTGAAACAGTTTCCAGGTGC
 CTGCTCCAAGCAACCACACAGCAGCCCCACCGCTGGCACTGAGAGGAGAGACAAAGAACTCGATGATGC
 CTTGGATGAACCTTCTGACAGTCTTGACAAAGACAGCCTGATCCAGATGAGAACAACCACTAGATGAT
 AAAGTAAAGGAAAAAATCAAAGCAGAGCATAGCGAGAACTGGGAGAAAGAGACGACACCATCCCCCTG
 AATATAGGCATCTCCTGGATAATGATGGGAAGGACAAACCAGAGAAGCCACTGACAAAGAACACAGAGAA
 GCCTGGTCAGGACCAGGCCCTTATGATGCCCTCTCAGAAGACTTGGATAGCTGCCCCCAACTACAGAG
 ACTTCACAGAATACAACAAGGAGAAGGTAAGAAGACTTCAAGTTCCAAGCATCCAAGAATGAAGAGA
 AAACAAGGATTCCTCCAAGAAGACAGAGGAAGTGCCCAAGCCAAAGGTGGATGAAGATGCAACA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAAGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_001033715
- Insert Size:** 2028 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:

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: [NM_001033715.1](#), [NP_001028887.1](#)

RefSeq Size: 4535 bp

RefSeq ORF: 2028 bp

Locus ID: 25403

UniProt ID: [P27321](#)

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 (2) lacks an in-frame exon compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform a.