

## Product datasheet for **MC228548**

### Capn5 (NM\_001301250) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Capn5 (NM_001301250) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Capn5
Synonyms:	nCL-3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC228548 representing NM\_001301250  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTCTCCTGCGCAAGGCCTATGAGGACCAGAACTACTCGGCGCTGAAGCGGGCCTGCCTGCGCAAGA  
 AGGTGCTGTTTCGAGGATCCCCTCTCCCTGCCACCGACGACTCCCTTTACTATAAGGGCACCCAGGGCC  
 CACAGTCAAGTGAAGCGGCCTAAGGATATCTGCGACGATCCCCGGCTCTTCGTAGATGGCATCAGCTCC  
 CATGACCTGCACAGGGCCAGGTGGGCAACTGCTGGTTTGTGGCTGCCTGCTCATCACTGGCCTCCCGAG  
 AGTCACTCTGGCAGAAGGTCATCCAGACTGGAAGGAGCAGGAATGGAACCCCGAGAAGCCTGACAGCTA  
 TGCTGGCATCTTCCACTTCAACTTCTGGCGCTTGGGGAGTGGGTGGACGTAATCGTCGATGACCGGCTG  
 CCCACAGTCAACAACCAGCTCATTTACTGCCATTCCAACCTCCAAAATGAGTTCTGGTGTGCCCTGGTGG  
 AGAAGGCCTATGCCAAGCTGGCCGGCTGTTACCAGGCCCTGGACGGAGGCAACACGGCCGATGCATTGGT  
 GGATTTACAGGTGGTGGTTTCTGAACCCATTGACCTGACCGAGGGGGACTTGGCCACTGACGAGGCTAAG  
 AGGAATCAGCTCTTTGAGCGAGTCTGAAGGTGCACAGCAGAGGGCGGCTCATCAGTGCCTCCATCAAGG  
 CTGTGACAGCAGCTGACATGGAGGCCCGCTGGCATGTGGCTGGTGAAGGGCCATGCATACGCTGTCCAC  
 CGATGTGCGCAAGGTGCGCCTGGGCCATGGCCTGCTGGCCTTCTCAAGTCAAGAGAGCTTGATATGATC  
 CGTCTGAGGAACCCCTGGGGCGAGCGGGAGTGGACGGGGCCCTGGAGTGACACGTGACAGGAATGGCAGA  
 AAGTGAGCAAGAGTGAGAGGGAGAAGATGGGCGTGACCGTGCAGGATGATGGGAATTCTGGATGACCTT  
 TGAGGACATGTCCCGTACTTTACTGACATCATTAAATGCCCGCTGATTAACACGTCTACCTGAGCATC  
 CATAAGACATGGGAGGAGGCCCGCTGCATGGTGCCTGGACGAGACATGAGGACCCACAGCAGAACC  
 GTGGAGGCTGCATCAACCACAAGGACACTTTCTCCAGAACCACAGTACGTAATTTGAAGTCAAGAAGCC  
 AGAAGATGAAGTGTGATCAGTATCCAGCAGCGGCCGAAGCGCTCAACTCGCCGGAGGGCAAGGCGGAG  
 AATCTGGCCATTGGCTTCGACATCTATAAGGTGGAAGAGAACCAGCAATACCGTATGCACAGCCTACAGC  
 ATAAGGCCCCAGCTCCATCTACATCAATTCGCCAGCGTTTTTTTTGAGGACAGAGCTGCCCGAGGGCCG  
 CTACGTTATCATCCCTACCACCTTTGAGCCAGGCCACACTGGCGAGTTCTGCTCCGAGTCTTACAGAT  
 GTCCCCTCCAACCTGCCGGAACTACGCCTGGATGAGCCCCCTCGACCTGTTGGAGTTCCCTCTGTGGCT  
 ACCCTCAGCAGGTGGCCAGGTACATGTCCTGGGGCTGCTGGCCTCAAGGACTCCCCAACAGGAGCAAA  
 CTCATATGTGATCATCAAGTGTGAGGGCGAAAAGGTTTCGCTCAGCTGTGCAGAGAGGGACCTCGACACCA  
 GAGTACAATGTAAGGATCTTCTATCGCAAGAAGCTGGCTCAGCTATCACCTGTCAGGTTTGGAAATC  
 ACCGAGTCTGAAGGATGAATTCCTGGCCAGGTGCACCTGAAGACTGCCCGGATGACCTGCAGGACCT  
 CCACACCTCCATCTCCAGGACCGCAGTAGCCGGCAGCCAGTACCTGCCAGGCATTGTAGCTGTGCGA  
 GTCCTCTGCAGTGCCTCTCTCACGGCTGT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAAGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001301250

**Insert Size:** 1923 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001301250.1</a></u> , <u><a href="#">NP_001288179.1</a></u>
<b>RefSeq Size:</b>	4351 bp
<b>RefSeq ORF:</b>	1923 bp
<b>Locus ID:</b>	12337
<b>UniProt ID:</b>	<u><a href="#">O08688</a></u>
<b>Cytogenetics:</b>	7 E1
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a member of the calpain family of proteins. Unlike many members of the calpain gene family, this gene lacks a calmodulin-like domain, required for calcium binding. Mouse models for Huntington's disease displayed increased levels of the protein encoded by this gene. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]</p> <p>Transcript Variant: This variant (2) contains an alternate exon in the 5' UTR and represents use of an alternate promoter, compared to variant 1. Both variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>