

Product datasheet for **MR230759**

Capn5 (NM_001301250) Mouse Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide
Sequence:

>MR230759 representing NM_001301250
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTCTCCTGCGGAAGGCCTATGAGGACCAGAACTACTCGGCGCTGAGCGGGCTGCCTGCGCAAGA
AGGTGCTGTTGAGGATCCCCTCTCCCTGCCACCGACGACTCCCTTTACTATAAGGGCACCCAGGGCC
CACAGTCAGGTGGAAGCGGCCTAAGGATATCTGCGACGATCCCCGGCTCTTCGTAGATGGCATCAGCTCC
CATGACCTGCACCAGGGCCAGGTGGGCAACTGCTGGTTTGTGGCTGCCTGCTCATCACTGGCCTCCCGAG
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TGCTGGCATCTTCACTTCAACTTCTGGCGCTTGGGGAGTGGGTGACGTAATCGTCGATGACCGGCTG
CCCACAGTCAACAACCAGCTCATTTACTGCCATCCAACCTCCAAAATGAGTTCTGGTGTGCCCTGGTGG
AGAAGGCCTATGCCAAGCTGGCCGGCTGTACCAGGCCCTGGACGGAGGCAACACGGCCGATGCATTGGT
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GTCCTCTGCAGTGCCTCTCTACGGCTGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR230759 representing NM_001301250
Red=Cloning site Green=Tags(s)

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MFSCAKAYEDQNYSAKRACLRKKVLFEDLPFATDDSLYYKGTGPGTIVRWKRPKIDDDPRLFVDGISS
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RNQLFERVLKVHSRGLISASIKAVTAADMEARLACGLVKGHAYAVTDVRKVRLLGHLLAFFKSEKLDMI
RLRNPWGEREWTGPWSDTSEEWQKVSSEKREKMGVTVQDDGEFWMTFEDMCRYFTDIIKRLINTSYLSI
HKTWEEARLHGAWTRHEDPQQNRSGGCINHKDTFFQNPQYVFEVKKPEDEVLSISIQRPKRSTRREGKGE
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VPSNCRELRLDEPPRTCWSSLGYPQQVAQVHVLGAAGLKDSPTGANSYVIKCEGEKVRSAVQRGTSTP
EYNVKGIFYRKKLAQPITVQVWNHRVLRKDEFLGQVHLKTAAPDDLQDLHTLHLQDRSSRQPSDLPGIVAVR
VLCASALTAV
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001301250

ORF Size: 1920 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001301250.1](#), [NP_001288179.1](#)

RefSeq Size: 4351 bp

RefSeq ORF: 1923 bp

Locus ID: 12337

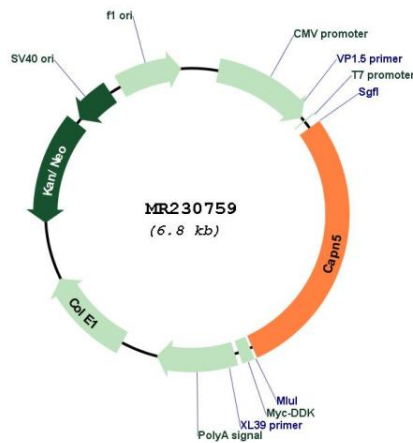
UniProt ID: [O08688](#)

Cytogenetics: 7 E1

MW: 73 kDa

Gene Summary: 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]

Product images:



Circular map for MR230759