

Product datasheet for **MR209889**

Capn10 (NM_011796) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Capn10 (NM_011796) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Capn10
Synonyms:	AW049679; Capn8; mKIAA1845
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR209889 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCGGGCGGTCCGGGCCGAGACGCCGGCGGGAGCTCTCCGGGACGCGGCATTCCCGCCTCGGACT
 CCTCGCTCTTTTACAACCTGTCCACGCCTTGCCCGAGTTTCGGGAGGACATCACTTGGAGACGACCCCA
 GGAAATCTGTGCCACACCTCAGCTGTTCCAGATAACCCATGGGAGGGACAGGTGAAGCAAGGGCTGCTG
 GGAGATTGCTGGTTCTGTGTGCCTGTGCCGCCCTTCAGAAGAGTCAACACCTCCTGGACCAGGTCTTCC
 CTCAGGACAGCCAGGCTGGTCTGACCAGAAAACCAAGGCTTCTCACCTGTGGATTTGGCAGTTTGG
 AACTGGGAGGAAGTGACCATAGATGATCGTCTGCCTTGTCTTCCGGGAGACTCTGCTTTTCCCGTGC
 CAGAGAGAGGATGTGTTCTGGCTTCCCTTACTGGAAAAGGCCTATGCTAAGGTCCATGGATCGTATGAGC
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 GAAGGATGTAACGAAAGCCAGCGCCAGCAGGACAGACCCAGTGGTGGGAGCACAGAATTGTCCGCGAG
 CTACTCCACCTGAAGGACCGGTGCTAATCAGCTGCTCTGTGCTTAGCCCCAGAGCAGGTGCCAGGGAAC
 TCGGAGAGTTCATGCCTTCATCATCTCAGATCTGCAGGAGCTCAGGAGTCACTGAGGAGGATCCT
 CCTGCTGCGGATTACAACCCCTGGGGCCGGCTTGTGGCAGGGCCTCTGGAGAGAAGGAGGTGAAGGG
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 AGGAAGAGGAGTTCCTCAGGGAGTTTGTAGAGTCACTCGGCTACCCAGTACAGAGGGCCGCCACCT
 ACAGAGTCTCCACACAGAGAGGGTGTGTGCCATACGCGGACACTGCCTGGTGCCTGGGTGACAGGGCAG
 TCAGCAGGAGGCTGCCGGAACAACAGTTGCTTCCCTGCAACCCCAAGTCTGGTTACGGCTCTTGAAC
 CCAGCGAGGTGTGTGGCTGTTCTTCAGAGACCCCGGAGGCGCTTAGTGGCCAGACTCGGGCACTGGC
 GGGTGCCAGTCTGCACCGGTGAACCTCCAGGCAAGACTACCAGGCTGTGGCCTGCACATCTGGAAG
 GTAGAGAAACGGAAGATCAGCCTGCCAGAGTCTGTCTGCACCCCTGTGGCTGGCACTGCATGCCATG
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 TTTGAAGGATGTGCCAGGGCAGTTCCTGCTCAGAGTCTTCTCCACTGGGAAAATCTCCCTCAGTCCGTC
 AGGCTGGCCACCAAGGGTGCATCGCTGGAACAGCCCTGCCTGCAGGCGAGTGGGAGACTGTGCAGTTGC
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 CTCAGTGACAGCCAGCTGCACCCATTGGTTTCCATGTCTTTCAGGTTCCAGCAGACGGTGAGAACCAGG
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 CCGCCTCTGCCTCCTTTCTGTGGGAACTACAGGATTGTTCCCTCCACCTACCTGCCAGATACAGAGGGT
 ACCTTACCGTAACCATAGCAACCAGAATCGATAGGCAAGTCCATCCACAGCCAGGAGATGCTGGGCCAGC
 TGCTCCAGGAGTCTCCTTATGGCAGTGTAAAGCC

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 TTACAAGGATGACGACGATAAGGTTTAA

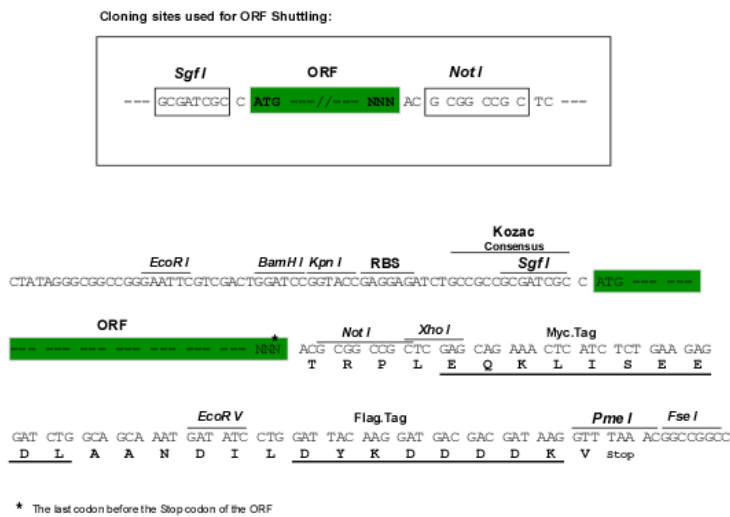
Protein Sequence: >MR209889 protein sequence
 Red=Cloning site Green=Tags(s)

MRAVRAETPARELFRDAAFPASDSSLFYNLSTPLAQFREDITWRRPQEICATPQLFPDNPWEGQVKQGLL
 GDCWFLCACAALQKSQHLLDQVFPFGQPGWSDQKYQGF FTCRIWQFGHWEEVTIDRLPLAGRLCF SRC
 QREDFVWLPLLEKAYAKVHGSYEHLWAGQVADALVDLTGSLAERWSLKDVTKASGQDRPSGGEHRTCRQ
 LLHLKDRCLISCSVLSPRAGARELGEFHAFIISDLQELRSQTGGILLRIHNPWGRRCWQGLWREGGEG
 WNQVEPAKESSELLAQLQEGEFWVEEEFLREFDEVTIGYPVTEAGHLQSLHTRVLC HTRTLPGAWVTGQ
 SAGGCRNNSCFPCNPKFWLRLLLEPSEVCVAVLQRP RRRLVGQTRALAGASPAPVNLPGKDYQAVGLHIWK
 VEKRKISLPRVLSAPPVAGTACHAYDREIHLRCELSPGYLAVPSTFLKDVPGQFLLRVFTGKISLSAV
 RLATKGASPGTALPAGEWETVQLQGCWRAGQTAGGSRNFASYP CNPLPFSVPEGAGPRYIRITLQQHCR
 LSDSQLHPIGFHVFPVADGENQDACSLLLQEPLLSCVPHRYAQEVSRLCLL SVGNRYRIVPSTYLPDTEG
 TFTVTIATRDRQSIHSQEMLGQLLQEVSFMAVMKA

TRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-NotI

Cloning Scheme:



ACCN: NM_011796

ORF Size: 2001 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_011796.2](#), [NP_035926.2](#)

RefSeq Size: 2877 bp

RefSeq ORF: 2001 bp

Locus ID: 23830

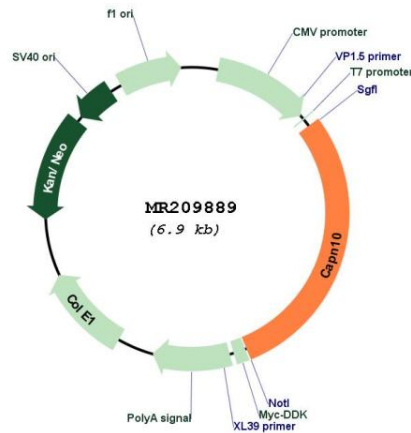
UniProt ID: [Q9ESK3](#)

Cytogenetics: 1 D

MW: 74.6 kDa

Gene Summary: Calcium-regulated non-lysosomal thiol-protease which catalyzes limited proteolysis of substrates involved in cytoskeletal remodeling and signal transduction. May play a role in insulin-stimulated glucose uptake (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209889