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Product datasheet for MR226219

Capn3 (NM_001177799) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Capn3 (NM_001177799) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Capn3
Synonyms:	AI323605; Capa-3; Capa3; Lp82; p94
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR226219 representing NM_001177799
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCAACTGTTATTAGTCCAACTGTGGCCCCAAGGACGGGGGCTGAGCCCAGGTCCCCAGGGCCAGTTC
CTCACCCAGCTCAAGGCAAGACCACCGAGGCTGGAGGTGGACACCCAAGTGGCATCTATTCGGCCATCAT
TAGCCGCAATTTTCCGATCATCGGTGTGAAAGAGAAGACATTTGAGCAGCTCCGCAGGAAGTGCCTAGAG
AAGAAAGTTCTTTATCTAGACCCCGAGTTCCCACCGGATGAGACCTCTCTCTTTTACAGTCAGAAGTTCC
CCATCCAGTTCGTCTGGAAGAGACCTCCGGAAATTTGTGAGAATCCCCGGTTTATCATTGGTGGAGCCAA
CAGGACTGACATCTGCCAAGGAGATCTAGGGGACTGCTGGTTTCTTGCAGCCATCGCCTGCCTGACCCTG
AATGAGCGGCTGCTTTTCCGAGTTATACCCCATGATCAAAGTTTCACTGAAAACTACGCAGGGATCTTCC
ACTTCCAGTTCTGGCGCTATGGAGACTGGGTAGATGTGGTCATTGACGACTGTCTGCCAACATACAACAA
TCAGCTGGTTTTCACCAAATCCAACCACCGCAATGAGTTCTGGAGTGCTCTCCTTGAGAAGGCTTATGCC
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GGGTGACAGAGTTTTTTGAGATCAAGGATGCTCCGAGTGACATGTACAAGATTATGAGGAAAGCTATCGA
GAGAGGCTCCCTCATGGGCTGCTCCATTGACACAATTGTTCCAGTGCAGTATGAAACAAGAATGGCCTGT
GGGTTGGTGAAAGGGCATGCCTATTCAGTCACTGGGCTGGAGGAGGCCCTGTTCAAAGGTGAGAAGGTGA
AGTTGGTGCGGCTGCGGAACCCCTGGGGCCAGGTGGAGTGGAACGGCTCTTGGAGTGATGGTTGGAAGGA
CTGGAGCTTTGTAGACAAAGATGAGAAGGCCCGTCTACAGCACCAGGTTACTGAGGATGGAGAGTTCTGG
ATGTCATATGATGACTTCGTCTACCATTTCACGAAGCTGGAGATCTGCAACCTCACAGCTGACGCCCTGG
AGTCCGATAAGCTTCAGACCTGGACGGTGTCTGTAAACGAGGGCCGCTGGGTGAGGGGCTGTTCTGCTGG
AGGCTGCCGAAACTTCCCAGACACTTTCTGGACCAACCCGCAGTACCGTCTCAAGCTTCTGGAGGAAGAC
GATGACCCTGAGGACTCTGAGGTAATCTGCAGCTTCCTCGTGGCTCTGATGCAGAAGAACCGGCGCAAGG
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AGCCCCACCAGGAGGGGGAATTCATCCTCCGAGTCTTCTCCGAAAAGAGGAATCTCTCTGAGGAAGCTGA
AAATACAATCTCTGTGGATCGGCCAGTGCCAAGGCCTGGCCACACAGACCAGGAAAGTGAGGAGCAGCAG
CAATTCCGGAACATCTTCAGGCAGATCGCAGGCGACGACATGGAGATCTGTGCAGATGAACTCAAGAATG
TCCTCAACACAGTGGTGAACAAACACAAGGACCTGAAGACACAAGGGTTCACGCTGGAGTCCTGCAGAAG
CATGATAGCTCTCATGGATACAGATGGCTCTGGAAGACTGAATCTTCAAGAGTTCCATCACCTCTGGAAA
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AGATGCGAAATGCAGTCAATGATGCAGGCTTCCATCTCAACAGCCAACTCTATGACATCATCACCATGCG
CTATGCGGACAAACACATGAACATCGACTTTGACAGCTTCATCTGCTGCTTCGTCAGGCTGGAAGGGATG
TTCAGAGCTTTTAACGCATTTGACAAGGATGGCGATGGTATCATCAAACTGAATGTACTTGAGTGGCTGC
AGCTTACCATGTATGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

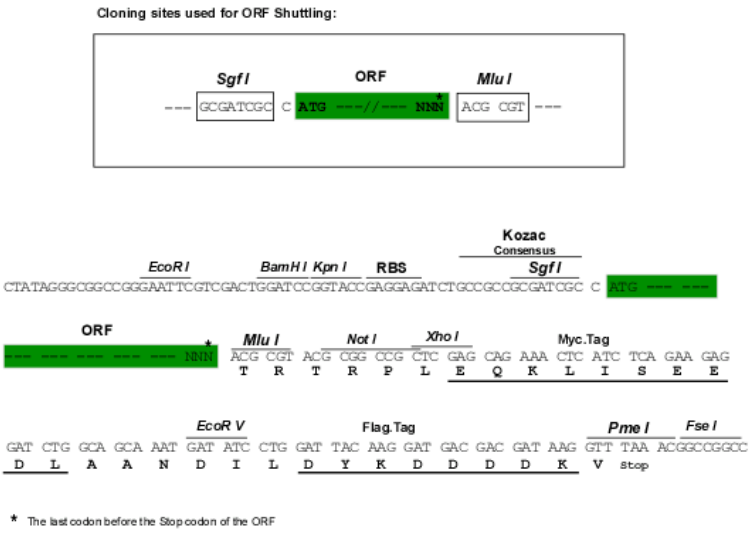
>MR226219 representing NM_001177799
Red=Cloning site Green=Tags(s)

MPTVISPTVAPRTGAEPRSPGPVPHPAQGKTTEAGGGHPSGIYSAIISRNFPIIGVKEKTFEQLRRKCLE
KKVLYLDPEFPPDETSLFYSQKFPIQFVWKRPPEICENPRFIIGGANRTDICQGDLGDCWFLAAIACLTL
NERLLFRVIPHDQSFTENYAGIFHFQFWRYGDWVDVVIDDCLPTYNNQLVFTKSNHRNEFWSALLEKAYA
KLHGSYEALKGGNTTEAMEDFTGGVTEFFEIKDAPSDMYKIMRKAIERGSLMGCSIDTIVPVQYETRMAC
GLVKGHAYSVTGLEEALFKGEKVKLVRLRNPWGQVEWNGSWSDGWKDWSFVDKDEKARLQHQVTEDGEFW
MSYDDFVYHFTKLEICNLTADALESDKLQTWTVSVNEGRWVRGCSAGGCRNFPDTFWTNPQYRLKLLEED
DDPEDSEVICSFLVALMQKNRRKDRKLGANLFTIGFAIYEVPKEMHGNKQHLQKDFFLYNASKARSKTYI
NMREVSQRFRLPPSEYVIVPSTYEPHQEGEFILRVFSEKRNLSEEAENTISVDRPVPRPGHTDQESEEQQ
QFRNIFRQIAGDDMEICADELKNVLNTVVNKHKDLKTQGFTLESCRSMIALMDTDGSGRLNLQEFHHLWK
KIKAWQKIFKHYDTDHSGTINSYEMRNAVNDAGFHLNSQLYDIITMRYADKHMNIDFDSFICCFVRLEGM
FRAFNAFDKDGDGIIKLNVLEWLQLTMYA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001177799

ORF Size: 2187 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_001177799.1, NP_001171270.1

RefSeq Size: 2891 bp

RefSeq ORF: 2190 bp

Locus ID: 12335

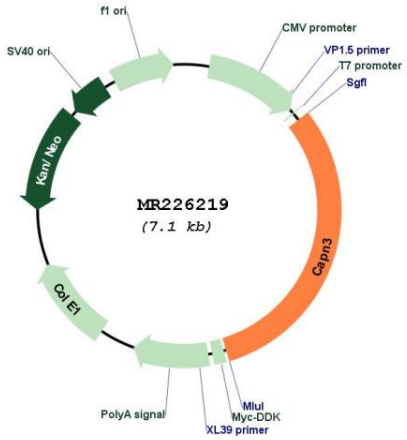
UniProt ID: Q64691

Cytogenetics: 2 60.31 cM

MW: 84.5 kDa

Gene Summary: Calcium-regulated non-lysosomal thiol-protease.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226219