OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RR207802

Capn12 (NM_001110808) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Capn12 (NM_001110808) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Capn12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RR207802 representing NM_001110808
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGAGTGGCAACAGGAAGGTCACTATCCAGCTGGTGGACGACGGGGCCGCGGCTGGAGCTGGGGGCC
CACAGCTCTTTAAGGGTCAGAACTACGAAGCCATCCGAGCAGCTTGCCTGGATTCCGGGATCCTGTTTCG
TGACCCTTGCTTCCCTGCTGGCCCTGATGCCCTTGGCTATGACAAGCTGGGACCTGACTCAGAGAAGGCC
AAAGGGGTGGAATGGAAGAGGCCTCATGAGTTTTGTGCCGAGCCCCAGTTCATCTGTGAAGACATGAGTA
GAACAGATGTGTGCCAGGGCAGCTTGGGAAACTGCTGGCTTCTAGCAGCGGCTGCCTCTCTCACGCTGTA
CCCCAGACTCCTGTACCGGGTGGTCCCCCCTGGGCAAGGCTTCCAAGATGGCTATGCTGGGGTTTTCCAC
TTTCAGCTCTGGCAGTTTGGCCGATGGGTGGATGTGGTGGTGGACGACAAACTGCCTGTGCGTGACGGGA
AGCTGCTCTTTGTGCGCTCAGAACAAAGGAACGAGTTCTGGGCCCCTCTACTGGAAAAGGCCTATGCCAA
GCTCCACGGCTCCTATGAGGTAATGCGAGGAGGTCACATGAACGAGGCATTTGTGGACTTTACGGGAGGC
GTGGGCGAGGTCCTCTACTTGAGACAGAACACCCCAGGTGTCTTTGCCGCCCTTCGCCATGCCCTGGCCA
AGGAGTCCCTTGTGGGTGCCACTGCCCTGAGTGATCGGGGTGAGATCCGCACAGATGAAGGGCTTGTGAA
AGGACATGCTTATTCTGTCACAGGCACACACAAGATGTCTCTGGGCTTCACCAAGGTGCGGCTGCTGCGG
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TCCCCTCTGAGTGGAGAGATGCCCTGCTTGTGAAAAAGGAGGATGGCGAGTTCTGGATGGAGCTTCAGGA
CTTCCTCACGCACTTCAACACGGTCCAGATTTGTTCACTGAGCCCTGAGGTGTTGGGCCCCAGCCCGGCT
GGTGGCGGCTGGCACATTCACACCTTCCAGGGCCGCTGGGTGCGCGGCTTCAACTCCGGTGGGAGTCAGC
CCAGCGCTGAAAACTTCTGGACCAATCCCCAGTTCCGGCTGACACTGCTGGAGCCGGATGAGGAAGAGGA
TGAAGATGATGAAGAGGGACCCTGGGGAGGCTGGGGAGCTGCAGGGGCACGGCCAGCGAGAGGAGGCCGA
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CGACGCTGCCGCCTGCCGCCCGGCCACTACCTGGTGGTGCCCAGCGCCTCGCGCGTGGGCGATGAAGCCG
ACTTCACGCTGCGCATCTTCTCGGAGCGCAGCCACACCGCAGTGGAGATCGATGACGTGATCAGCGCGGA
CCTGGACGCCCTCCAGGCCCCCTACAAGCCTCTGGAGCTGGAGTTGGCACAGCTATTTTTGGAGCTGGCT
GGAGAGGAGGAGGAGCTCAATGCTCTCCAGCTGCAGACCTTAATAAGCATTGCTCTGGAGCCTGCTAGGA
ACAACACCAGGACCTCTGGAGAGATTGGCCTTAGGACCTGCGAACAGCTTGTGCAGTGTTTTGGGCGTGG
GCAAAGATTGGCCCTATACCACTTCCAGGAACTCTGGGGCCATCTCCTGTCATGGCAGGCCACATTTGAC
AAGTTCGATGAAGATGCTTCTGGGACAATGAACTCCTGTGAACTGAGGCTGGCACTGACTGCCGCAGGCT
TCCACCTGAACAACCAGCTGACCCAGGCTCTCACTAGCCGCTACCGAAACAGCCGGCTCCGCGTGGACTT
CGAGCACTTTGTGTGTTGTGCAGCCCGGCTCACCTGCATCTTCCGCCACTGCTGCCAACACCTGGATGGC
GGCGAGGGGGTCGTCTGCCTGACCCACAAACAGTGGTCGGAGGTGGCCACCTTCTCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

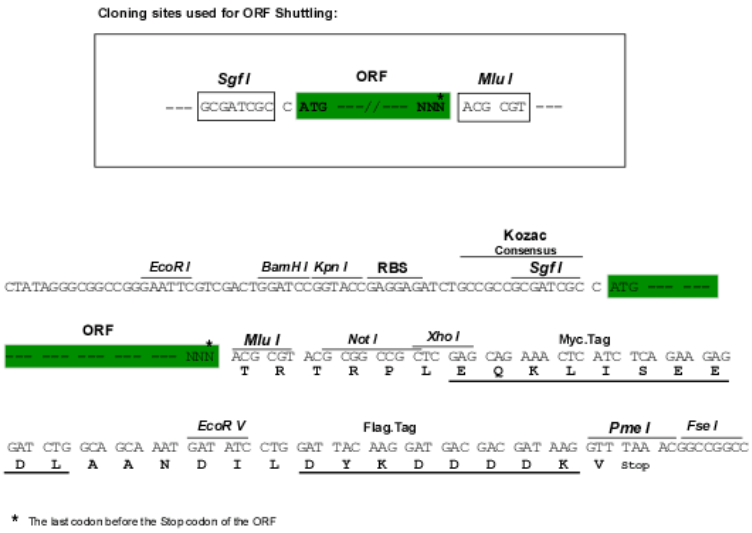
>RR207802 representing NM_001110808
Red=Cloning site Green=Tags(s)

MASGNRKVTIQLVDDGAAAGAGGPQLFKGQNYEAIRAACLDSGILFRDPCFPAGPDALGYDKLGPDSEKA
KGVEWKRPHEFCAEPQFICEDMSRTDVCQGSLGNCWLLAAAASLTLYPRLLYRVVPPGQGFQDGYAGVFH
FQLWQFGRWVDVVVDDKLPVRDGKLLFVRSEQRNEFWAPLLEKAYAKLHGSYEVMRGGHMNEAFVDFTGG
VGEVLYLRQNTPGVFAALRHALAKESLVGATALSDRGEIRTDEGLVKGHAYSVTGTHKMSLGFTKVRLLR
LRNPWGRVEWSGPWSDSCPRWDMLPSEWRDALLVKKEDGEFWMELQDFLTHFNTVQICSLSPEVLGPSPA
GGGWHIHTFQGRWVRGFNSGGSQPSAENFWTNPQFRLTLLEPDEEEDEDDEEGPWGGWGAAGARPARGGR
VPKCTVLLSLIQRNRRCLRAKGLTYLTVGFHVFQIPEELLGLWDSPRSRALLPGLLRADRSVFCARRDVS
RRCRLPPGHYLVVPSASRVGDEADFTLRIFSERSHTAVEIDDVISADLDALQAPYKPLELELAQLFLELA
GEEEELNALQLQTLISIALEPARNNTRTSGEIGLRTCEQLVQCFGRGQRLALYHFQELWGHLLSWQATFD
KFDEDASGTMNSCELRLALTAAGFHLNNQLTQALTSRYRNSRLRVDFEHFVCCAARLTCIFRHCCQHLDG
GEGVVCLTHKQWSEVATFS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001110808

ORF Size: 2157 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_001110808.1, NP_001104278.1

RefSeq Size: 2932 bp

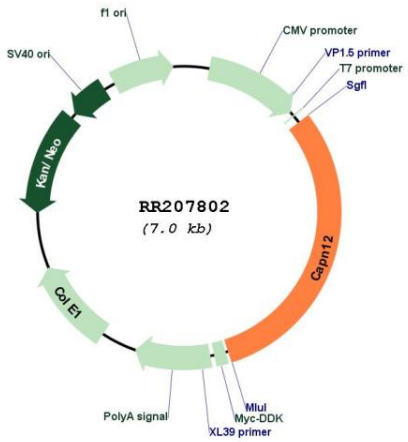
RefSeq ORF: 2160 bp

Locus ID: 308476

Cytogenetics: 1q21

MW: 80.4 kDa

Product images:



Circular map for RR207802