

Product datasheet for **MG210066**

Capn9 (BC058748) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Capn9 (BC058748) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Capn9
Synonyms:	2200003B16Rik; GC36; nCL-4; nCL4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG210066 representing BC058748
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCTTACCTGCATCGGTCCCTGAGGCCACAGCCACAGCCAGTCCCGGGGATGCCAGGACTATCCACT
 CCTCAGGTCAGAGCTTTGAGCAGCTGAGCAGGGCTGCCTGCAGTCTGGACCTTGTGAGGATGCTGA
 CTTCCCTGCCAGCAATGTCTCCCTGTTCTACAGCGAGAGGCCCCAGTCCCTTTGTGTGAAAACGGCCA
 GGGGAAATTGTGAAAAACAGAATTCATTCTTGAGGGGCCACCAGGACCGACATTTGCCAAGGGGAGC
 TGGGAGACTGCTGGCTCCTGGCAGCCATTGCCTCCCTAACCTCAATCAGAAAGCACTGGCCAGGGTGGT
 TCCCCAGGACCAAGGATTTGGTTCTGGCTATGCCGGGATATTTCAATTTCCAGTCTGGCAGCACAGTGAG
 TGGCTGGAGCTAGTGATTGATGACCGCTGCCACCTCAAGGACCGCTGGTCTTCTCCACTCTGCTG
 ATCACAATGAGTTCTGGAGCGCACTGCTGGAGAAAGCCTATGCCAAGCTAACGGGAGTTATGAGGCACT
 GAAGGGAGGCAGTGCCATTGAAGCCATGGAAGACTTCACTGGGGTGTGGCTGAGAACTTCCAAATCCGA
 GAGGCACCAGAGGATTTCTTTGAGATTCTGGAGAAGGCTTTGAAGCGTGGTTCTTGGCTGGGATGCTCCA
 TAGATACCTGAATGCCTCAGAATCTGAAGCTCGAACATCTCTTGGTCTCATTAAGGGCCATGCCTACAC
 CGTGACGGGGCTCGATCAGGTAACCTCCATGGCCAGAGAATCAAGCTCATCAGAGTCCGTAACCCCTTGG
 GGCCAGGTGGAGTGGAACGGGCCATGGAGTGACAGCTCTCCTGAGTGGCGCTCTGTGGACCTGGAGGAGC
 AGAAGCGCCTGGGCCACACTGCCCTTGATGACGGGGAGTTCTGGATGGCATTCAAAGACTTCAAGATCCA
 TTTTGACAAAGTGGAGATCTGCAACCTCACACCTGATGCCCTGGAGGACAGCGCCCTCCACAGTGGGAG
 GTGACCATCCACCAAGGAAGCTGGGTCCGTGGCTCCACTGCTGGTGGCTGTCGCAACTTCTGGACACCT
 TCTGGACCAACCCTCAGATAAAGCTGTCCCTGACCGAGAGGGACGAGGGCCAGGAGGGCTGCACTTTCT
 AGCAGCCTTGATGCAGAAAGACCCGAGGAGGCTCAAGAGGTTTGGCGCCAACATGCTGACCATTTGGCTAC
 GCCATTTACCAGTGCCCAGACAAGGACGGACACCTGAGTAGGGACTTTTTTCAGGTACCATGCCTCCCTGG
 CCCGAAGCAAGACGTTTCACTCAACTTGAGAGAAGTCTCAGAGCGATTCCAGCTGCCCCGGGAGACTATAT
 CCTCATCCCCAGCACCTTTGAGCCGATCAGGAGGCCGACTTCTGCCTGAGAATCTTCTCTGAGAAGAGA
 GCTGTGACTCGGGACCTGGACGAGAACATAGACATTGACCTTCTGAGCTTCAAAGCCGACTCCACAGG
 AGGAGGAAACAGAAGAGGAACAGCAGTTCGGGCCCTGTCCAGCGAGTTGCTGGCGAGGACATGGAGGT
 GTCAGCTGAGGAGCTTGAATATGTTCTAAATGCTGTTCTGCAGAAGAAAACAGCCCTCAAGTTCAAGAGG
 CTGAGCCTGCTGTCTGCAGAAACATCATCTCTGATGGATACCAGTGGCAACGGGAAGCTGGAGTTTG
 AAGAGTTCCGGTCTTCTGGGACAAGCTGAAACTGGATGGACCTGTTTCTCCAGTTTCGATGTGGACAA
 GTCTGGCACCATGTCTTCTATGAGCTGCGGACGGCACTGAAAGCTGCAGGCTTTCAGCTGGGTGGCCAT
 CTCTGACGCTGATTGTCTCAGGTATGCAGATGAGGACCTCCAGCTGGATTTTCGATGACTACCTCAACT
 GCCTGGTGGGCTGGAGAATGCAAGCCGGGTGTTCCAATCTCTCAGTGTGAAGAACAAGGACTTCATCCA
 TCTCAACATAAACGAGTTCATCAGCCTGACCATGAACATC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210066 representing BC058748
 Red=Cloning site Green=Tags(s)

MPYLHRSRLRPQPQVPGDARTIHSSGQSFEQLRQGCLQSGTLFEDADFPASNVSIFYSERPQVPFVWKRPG
 GEIVKPEFIFLGGATRTDTCQGELGDCWLLAAIASLTLNQKALARVVPQDQGFSGSYAGIFHFQFQWQHS
 WLDVVIDDRLPTFKDRLVFLHSADHNEFWSALLEKAYAKLNGSYEALKGGSAAIEAMEDFTGGVAENFQIR
 EAPEDFFEILEKALKRGSLLGCSIDTLNASEARTSLGLIKGHAYTVTGLDQVNFHGQRIKLI RVRNPW
 GQVEWNGPWSDSPEWRSVDLEEQKRLGHTALDDGEFWMAFKDFKIHFDKVEICNLTPDALEDSALHRWE
 VTIHQGSWVRGSTAGGCRNFLDTFWTNPQIKLSLTERDEGQEGCTFLAALMOKDRRRLKRFGANMLTIGY
 AIYQCPDKDGHLSRDFFRYHASLARSKTFINLREVSERFQLPPGDYILIPSTFEPHQEADFCLRIFSEKR
 AVTRDLDENIDIDLPELKPPTPQEEETEEQQFRALFQRVAGEDMEVSAEELEYLVNAVLQKKTALKFKR
 LSLSCRNIISLMDTSGNGKLEFEFRVFDKLDKHWMDLFLQFDVDSGTMSYELRTALKAAGFQLGGH
 LLQLIVLRYADEDLQDFDDYLNCLVRLLENASRVFQSLSVKNKDFIHLNINEFISLTMNI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC058748

ORF Size: 2072 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: [BC058748](#), [AAH58748](#)

RefSeq Size: 2325 bp

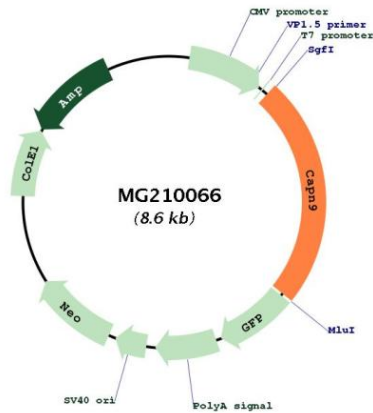
RefSeq ORF: 2072 bp

Locus ID: 73647

Cytogenetics: 8 E2

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

Product images:



Circular map for MG210066