

Product datasheet for MR220180

Caprin2 (NM_181541) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Caprin2 (NM_181541) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Caprin2
Synonyms:	Adir; C1qdc1; Eeg1; RNG1; rng140
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR220180 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGTCAGCCAAGTCCCAAGTGAACCAGGATCAGCAAGGGGAAAACCAGCGGGCTCTGAGCCCCCTGC
AGTCTACTCTCAGTTCTGCTGCATCTCCTCCAGGCATATGAAACCTATATTGATAATGGACTTATATG
CCTTAAACACAAAATTAGGAACATCGAGAAGAAGAAGCTCAAAGTGAAGATTATAAAGATCGCCTTAAA
AATGGAGAGCAGCTTAACCCAGACCAGTTGGAAGCAGTAGAAAAGTATGAAGAAGTACTTCATAATTTGG
AATTTGCCAAGGAGCTTCAGAAAACCTTTTCTGCACTGAGCCAAGATCTGCTGAAAGCGCAGAAAAGGC
CCAGAGAAGGGAGCACATGCTGAAACTTGAGACTGAGAAGAAAAGCTTCGAACTATGCTTCAAATTCAG
TATGTATTACAGAATTTGACACAAGAACATGTACAAAAAGACTTCAAAGGGGGCTTGAATGGTGCAATGT
ATTTGCCCTTCAAAGAAGCTTGACTACCTCATTAAATTTCTAAAAGTACCTGCCCTGAAAGAAATGAAAAG
TCTGAGTGTTGAAGACCAGATGGAGCAGTCATCCTTGTACTTTTGGGACCTTTTGGAAAGGTAGTAAAAA
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AAAGTGTCCAGTTCTCAGGAATTTAAGGAAAAAGCAGAAGAAGTGCTAATGCAATCAGAAATGAAAAA
ACAGTTACTGAAGAGTGAGTCTATCAAAGAGTCAGAATCTTTACGGAACCTGTACAACCCAGAGATACAG
CCACAAGAGTTTCTTAACAGAGCTATATGACAGAAGTAAAATTTCAAGAAAACAAGAAAATGTAGAAC
AATCCTGGGAAGCAGATTATGCTAGGAAAACCAAGTCTCCTCAAATGCTGGAATACACTTCCAGAGCCAGA
TGGTCAGGAGAAGAAGAAAGAGTCTTGGAGTCTGGAAGTCTTCTTAAAGACTCAGGAGGTATCAAAG
CCTGTGGTTTCTTAGTACAGGGGAAAACCTCAGGCCAACATTGCAGGAAGAGCAGAAGCAGCAGGTTCTTA
TAACACCTGTCAGTCAGTGAAGCCAGAAAGCCCTAAGTCAAAGTGGCAGTCTCAAGAAGAGCAGAA
TGTACAGGAGACACCAAAGCCATGGGTGGTTCAGTCACAGAAAAGAACAAGATCAAAGAAGCTGCCTCCT
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AACAGGCTTCAGTGCAGCCTGGGACTCCAGTATCCTGGGAAAACAATGCTGAGAACCAGAAAACCTCCTT
AGTACCACAATCACAGATTTCTCTAAAGTCTGGGGAGCAGCTTCAGCAGGCCTTACCAAATGGCCAA



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GTCCTGACGAGGAAGTTAAATGTAGAACCCAAAGATGTGCCTAAGCCCCTGCCTCAGCCTATAGACTCTT
 CTCTGCCCTTCCAAAGGATCCAGTATTGAGGAAAGAAAACTGCAGGACCTCATGAGCCAGATTCAAGG
 AACTTATAACTTTATGCAAGAGTCTGTTCTAGATTTTGACAAACCTCAAGTGAATTCCATCATCACAG
 CCGCCTCAGCTTGTCCAGTCTCTACAGTATCTGCAGAACAAAATTGTCCAACCAAGTGATTTTCTTC
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 GGAGTTCAGAAGCCATTAGCACAGCACCTTTTCAGGCCATGCAGACAGTGTAAATGTTAATGCACCTCT
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 AATCTGGCTCCTGGAACCTTAGACCAACCTATTGTGTTTATCTTCTCTGAACAACCTGGGAGAGACCT
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 AACGATGGTGTCCAGACCATGAGACAGCAAGCAACCATGCCGTTCTCCAGCTCCTCCAGGGAGACCAGA
 TATGGCTGCGCTTACACAGGGGAGCGATTATGGAAGTAGCTGGAATACTCTACATTTTACAGGCTATCT
 TCTTTATCAAGAT

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220180 protein sequence
 Red=Cloning site Green=Tags(s)

MKSAKSQVNDQQGENQRALSPLQSTLSSAASPSQAYETYIDNGLICLKHKIRNIEKKKLKLEDYKDRLK
 NGEQLNPDQLEAVEKYEEVLHNLEFAKELQKTFSSALSQDLLKAQKKAQRREHMLKLETEKLLRMLQIQ
 YVLQNLQEHVQKDFKGLNGAMYLPSKELDYLKFKSLTCPERNESLSVEDQMEQSSLYFDLLEGGSEK
 TVVGTYYKHVKDLLSKLLHSGYFESVPLRNSKEKAEVLMQSEMKKQLLSESIKESSELTELQVPEIQ
 PQEFLNRRYMTEVKFSRKQENVEQSWEADYARKPSLLKCNWNTLPEPDGQEKKESLESWKSLLKTEVSK
 PVVSLVQGKLRPTLQEEQKQVPIPTVPSQWKPEPKSKVGSPEEQEVNQVETPKPWVVSQKEQDPKLLPP
 GSWAVSVQSEQSGRSWTPVCREQASVQPGTPVSWENNAENQKHSLVPQSQISLKSAGASAGLLPNGQ
 VLTRKLNVEPKDVPKPLPQPIDSSALPKDPVLRKEKLQDLMSQIQGTYNFMQESVLDLDFKPSAIPSSQ
 PPSACPVSTVSAEQNLSNQSDFLQEPSQASSPVTCSNACLVTTDQASSGSETEFTTSETPEMVVSPCKP
 KPASALASPNPPLSKSFQLPPASGSSEAI STAPFQAMQTVFNVNAPLPPRKEQEMKEPPYSSGYNQNFST
 SSTQTVSQCQLPAVHIDQTTQPPETGAGYHPDGTVQVSNGLAFYPAPTSMFPRPAQPFISSRGTLRGCS
 HGGRLLMSSYQSPGGYKGFDSYRGLPSVSSGNYSQQLQAREYSGTAYSQRDNFQCYKRSSTSSGLQAN
 SRAGWSDSSQVSPERDSETFNSGDSGLGDSRSMTPVDVVPVTPAAAAILPVHIYPLPQMRVAFSAARTS
 NLAPGTLDPQIVFDLLLNNLGETFDLQLGRFNCPVNGTYVFIHMLKLAVNVPLVYVNLKNEEVLVSAYA
 NDGAPDHETASNHAVLQLLQGDQIWLRLHRGAIYGSSWKYSTFSGYLLYQD

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_181541

ORF Size: 3096 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_181541.3](#), [NM_181541.4](#), [NP_853519.2](#)

RefSeq Size: 3713 bp

RefSeq ORF: 3096 bp

Locus ID: 232560

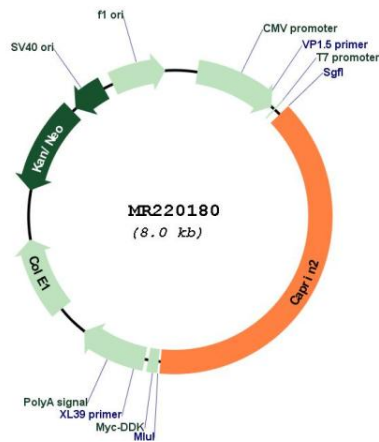
UniProt ID: [Q05A80](#)

Cytogenetics: 6 G3

MW: 114.5 kDa

Gene Summary: This gene encodes a member of the caprin family. The encoded protein may function as an RNA-binding protein that induces the formation of RNA granules and plays an important role in brain function. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2014]

Product images:



Circular map for MR220180