

Product datasheet for **MG220180**

Caprin2 (NM_181541) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Caprin2 (NM_181541) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Caprin2
Synonyms:	Adir; C1qdc1; Eeg1; RNG1; rng140
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG220180 representing NM_181541 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGTCAGCCAAGTCCCAAGTGAACCAGGATCAGCAAGGGGAAAACCAGCGGGCTCTGAGCCCCCTGC
AGTCTACTCTCAGTTCTGCTGCATCTCCTCCAGGCATATGAAACCTATATTGATAATGGACTTATATG
CCTTAAACACAAAATTAGGAACATCGAGAAGAAGAAGCTCAAAGTGAAGATTATAAAGATCGCCTTAA
AATGGAGAGCAGCTTAACCCAGACCAGTTGGAAGCAGTAGAAAAGTATGAAGAAGTACTTCATAATTTGG
AATTTGCCAAGGAGCTTCAGAAAACCTTTTCTGCACTGAGCCAAGATCTGCTGAAAGCGCAGAAAAGGC
CCAGAGAAGGGAGCACATGCTGAAACTTGAGACTGAGAAGAAAAGCTTCGAACTATGCTTCAAATTCAG
TATGTATTACAGAATTTGACACAAGAACATGTACAAAAAGACTTCAAAGGGGGCTTGAATGGTGCAATGT
ATTTGCCCTCAAAGAAGCTTGACTACCTCATTAAATTTCTAAAAGTACCTGCCCTGAAAGAAATGAAAAG
TCTGAGTGTTGAAGACCAGATGGAGCAGTCATCCTTGTACTTTTGGGACCTTTTGGAAAGGTAGTAAAA
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AAAGTGTCCAGTTCTCAGGAATTTAAGGAAAAAGCAGAAGAAGTGCTAATGCAATCAGAAATGAAAA
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GTCCTGACGAGGAAGTTAAATGTAGAACCCAAAGATGTGCCTAAGCCCCTGCCTCAGCCTATAGACTCTT
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 CATCTGCCAGTCCATATCTATCCCCTGCCTCAGCAATGCGAGTTGCCCTTCTCAGCTGCCAGAACATCC
 AATCTGGCTCCTGGAACCTTAGACCAACCTATTGTGTTTGTCTTCTCCTGAACAACCTGGGAGAGACCT
 TTGATCTTCAGCTTGGTAGATCAATTGCCAGTGAATGGCACTACGTGTTCAATTTTCCATGCTAAA
 GCTGGCTGTGAATGTACCACTGTATGTCAACCTGATGAAGAAATGAGGAGGCTTGGTGTGAGCCTATGCC
 AACGATGGTGTCCAGACCATGAGACAGCAAGCAACCATGCCGTTCTCCAGCTCCTCCAGGGAGACCAGA
 TATGGCTGCGCTTACACAGGGGAGCGATTATGGAAGTAGCTGGAATACTCTACATTTTCAGGCTATCT
 TCTTTATCAAGAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG220180 representing NM_181541
 Red=Cloning site Green=Tags(s)

MKSAKSQVNDQQGENQRAL SPLQSTLSSAASPSQAYETYIDNGLICLKHKIRNIEKKKLKLEDYKDRLK
 NGEQLNPDQLEAVEKYEEVLHNLEFAKELQKTF SAL SQDLLKAQKKAQRREHMLKLETEKKLRMLQIQ
 YVLQNLQEHVQKDFKGLNGAMYLPSKELDYLIKFSKLTCPERNESLSVEDQMEQSSLYFDLLEGGSEK
 TVVGTTYKHVKDLLSKLLHSGYFESVPLRNSKEKAEVLMQSEMKKQLLKSSEIKESSELTELQVPEIQ
 PQEFLNRRYMTEVKFSRKQENVEQSWEADYARKPSLLKCWNTPPEPDGQEKKESLESWKSSLTQEVSK
 PVVSLVQGLRPTLQEEQKQVPIPTVPSQWKPEPKSKVGSPPQEEQNVQETPKPWVVQSQKEQDPKLLPP
 GSWAVSVQSEQSGRSWTPVCREQASVQPGTPVSWENNAENQKHSLVPQSQISLKSAGASAGLLPNGQ
 VLTRKLNVEPKDVPKPLPQPIDSSSALPKDPVLRKEKLQDLMSQIQGTYNFMQESVLDLDFDKPSSAIPSSQ
 PPSACPVSTVSAEQNLSNQSDFLQEPSQASSPVTCSNAACLVTTDQASSGSETFTTSETPEMVVSPCKP
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 SSTQTVSQCQLPAVHIDQTTQPETGAGYHPDGTVQVSNGLAFYPAPTSMFPRPAQPFISSRGTLRGCS
 HGGRLLMSSYQSPGGYKGFDSYRGLPSVSSGNYSQQLQAREYSGTAYSQRDNFQCYKRSSTSSGLQAN
 SRAGWSDSSQVSSPERDSETFNSGDSGLGDSRSMTPVDVPTSPAAAAILPVHIYPLPQQMRVAFSAARTS
 NLAPGTLDPQIVFDLLLNNLGETFDLQLGRFNCPVNGTYVFIHMLKLAVNVPLVYVNLKNEEVLVSAYA
 NDGAPDHETASNAHVLQLLQGDQIWLRLHRGAIYGSSWKYSTFSGYLLYQD

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

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:	<ol style="list-style-type: none">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:	<u>NM_181541.3</u> , <u>NP_853519.2</u>
RefSeq Size:	3566 bp
RefSeq ORF:	3096 bp
Locus ID:	232560
UniProt ID:	<u>Q05A80</u>
Cytogenetics:	6 G3
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]