

Product datasheet for **MC219298**

Acin1 (NM_001085472) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acin1 (NM_001085472) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Acin1
Synonyms:	2610036I19Rik; 2610510L13Rik; Acinus; acinusL; acinusS; Acn; C79325; mKIAA0670
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC219298 representing NM_001085472
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGTTCTCAGACAGCAGAGCAGGTGAAGAGAAGGAGGAAGTACCATGGACACCAGTAAAAACAGAC
 CTGAAAATGAGGTGCCTGAGCCTCTCTGCCTGTTGCAGACCAAGTCAGCAATGATGAGCGCCAGAGGG
 TGGTGCTGAAGAAGAGGAAAAGAAAGAGAGTTCGATGCCCAAGTCATTCAAGAGGAAAATCTCCGTTGTC
 TCAGCTACCAAGGGGGTCAAGCTGAAACAGTGACACAGAGGGGGGCCAGCCTGGCCGAAAACGCCGTT
 GGGGAGCCAGCACTGCCGCGACACAGAAGAAACCGTCCATCAGTATCACCACTGAGTCACTCAAGAGCCT
 CATCCCCGACATCAAACCCCTGGCGGGCAGGAGGCTGTTGTGGATCTTCATGCCGATGACTCCGAATC
 TCTGAGGATGAGACAGAGCGTAATGGCGACGATGGGACCCATGACAAGGGACTGAAGATATGCCGGACAG
 TCACTCAGGTAGTACCCGACAGAGGGCCAGGAGAATGGGCAGAGGGAAGAGGAAGAAGAGAAAGAGCCTGA
 AGCCGAGCTGCCGCGCCACCCAGGTGTCACTGGAGGTTGCCTTGCCCCACCTGTGGAGCACGAAGTA
 AAGAAAGTAACATTAGGAGATACCTTAACCCGGAGGTCCATCAGCCAACAGAAAGTCTGGAGTTTCCATTA
 CAATTGATGACCCAGTCCGGACCGCCAGGTGCCCTCCCCACCCAGGGGCAAGATCAGTAACATTGTCCA
 CATCTCCAACCTGGTTTCCTTCACTTTAGGCCAGCTGAAGGAATTATTGGGGCGTACAGGAACCTTTG
 GTGGAAGAGGCCCTTCTGGATAGACAAGATCAAATCTCATTGCTTTGTGACGTACTCTACAGTAGAGGAAG
 CCGTTGCCACCCGACAGCTCTGCACGGGGTCAAGTGGCCCCAGTCAACCCCAAATTCCTTTGTGCTGA
 CTATGCTGAGCAAGATGAGCTGGACTATCACCGGGGACTCTTGGTAGATCGGCCATCTGAAACTAAGGCA
 GAGGAACAGGGAGCACCAAGGCCCTGCATCCCCACCCCAACCCAGTCCAGCCACCGCCCCACCCCC
 GGGCTGAGCAGCGGGAGCAGAAAGGGCTGTTTCGAGAGCAATGGGCAGAACGGGAACGGGAATGGAGCG
 CCGGGAGAGGACTCGGTCTGAGAGAGAATGGGATCGGGACAAAGTTCGAGAGGGACCCCGCTCCCGATCA
 CGGTCCCCTGACCGCGCGGAAAGAGCGAGCAAAATCTAAAGAAAAGAGAGTAAAAAGAAAGAAAAAG
 CCCAGGAGGAGCCACCTGCCAAGCTGCTGGATGACCTCTTCCGTAAGACTAAGGCAGCTCCCTGCATCTA
 TTGGCTCCCTCTGACTGAGAGCCAAATTGTTTCAAGAGGAGGAGAGCAAGCTGAACGGGCCAAGGAGCGG
 GAGAAGCGGCGAAAAGAACGAGAAGAAGAACAAGGAACGGGAGAAGGAAGCTGAGCGGGAACGGA
 ACCGGCAGCTAGAACGGGAGAAGAGGAGGAGCAGCAGGGAGAGAGAGAGGGACGGGAGAGAGAGCG
 GGACAGGGGTGACCGAGAGCGGGAGAGGAGCGAGACCGAGACCGAGGAGAGGGATCGCAGAGAC
 ACCAAGCGCCACAGCAGAAGCCGGAGTCAAGCACACCTGTACGGGACCGGGGTGGCGCCGC**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001085472

Insert Size: 1746 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_001085472.2, NP_001078941.2

RefSeq Size: 2390 bp

RefSeq ORF: 1746 bp

Locus ID: 56215

Cytogenetics: 14 C2

Gene Summary: Auxiliary component of the splicing-dependent multiprotein exon junction complex (EJC) deposited at splice junction on mRNAs. The EJC is a dynamic structure consisting of core proteins and several peripheral nuclear and cytoplasmic associated factors that join the complex only transiently either during EJC assembly or during subsequent mRNA metabolism. Component of the ASAP complexes which bind RNA in a sequence-independent manner and are proposed to be recruited to the EJC prior to or during the splicing process and to regulate specific excision of introns in specific transcription subsets; ACIN1 confers RNA-binding to the complex. The ASAP complex can inhibit RNA processing during in vitro splicing reactions. The ASAP complex promotes apoptosis and is disassembled after induction of apoptosis. Involved in the splicing modulation of BCL2L1/Bcl-X (and probably other apoptotic genes); specifically inhibits formation of proapoptotic isoforms such as Bcl-X(S); the activity is different from the established EJC assembly and function. Induces apoptotic chromatin condensation after activation by CASP3. Regulates cyclin A1, but not cyclin A2, expression in leukemia cells (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) differs in the 5' UTR and 5' coding region, compared to variant 1. The resulting isoform (3) is shorter at the N-terminus, compared to isoform 1.