

Product datasheet for **MC228326**

Acin1 (NM_001242605) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acin1 (NM_001242605) 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: >MC228326 representing NM_001242605
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACACCAGTGAACACAGACCTGAAATGAGGTGCCTGAGCCTCCTCTGCCTGTTGCAGACCAAGTCA
 GCAATGATGAGCGCCAGAGGGTGGTGCTGAAGAAGAGGAAAAGAAAGAGAGTTCGATGCCCAAGTCATT
 CAAGAGGAAAATCTCCGTTGTCTCAGCTACCAAGGGGGTGCAAGCTGGAAACAGTGACACAGAGGGGGC
 CAGCCTGGCCGAAAACGCCGTTGGGGAGCCAGCACTGCCGCGACACAGAAGAAACCGTCCATCAGTATCA
 CCACTGAGTCACTCAAGAGCCTCATCCCCGACATCAAACCCCTGGCGGGCAGGAGGCTGTTGTGGATCT
 TCATGCCGATGACTCCGAATCTCTGAGGATGAGACAGAGCGTAATGGCGACGATGGGACCCATGACAAG
 GGACTGAAGATATGCCGGACAGTCACTCAGGTAGTACCCGACAGAGGGCCAGGAGAATGGGCAGAGGGAAG
 AGGAAGAAGAGAAAGAGCCTGAAGCCGAGCTGCCGGCGCCACCCAGGTGTCAGTGGAGGTTGCCTTGCC
 CCCACCTGTGGAGCACGAAGTAAAGAAAGTAACATTAGGAGATACCTTAACCCGGAGGTCCATCAGCCAA
 CAGAACTCTGGAGTTTCCATTACAATTGATGACCCAGTCCGGACCGCCAGGTGCCCTCCCCACCCAGGG
 GCAAGATCAGTAACATTGTCCACATCTCCAACCTGGTTTCGTCCTTCACTTTAGGCCAGCTGAAGGAATT
 ATTGGGGCGTACAGGAACCTTTGGTGAAGAGGCCCTTCTGGATAGACAAGATCAAATCTCATTGCTTTGTG
 ACGTACTCTACAGTAGAGGAAGCCGTTGCCACCCGCACAGCTCTGCACGGGGTCAAGTGGCCCCAGTCCA
 ACCCCAAATTCCTTTGTGCTGACTATGCTGAGCAAGATGAGCTGGACTATCACCGGGGACTCTTGGTAGA
 TCGGCCATCTGAACTAAGGCAGAGGAACAGGGAGCACCAAGGCCCTGCATCCCCACCCACCCCA
 GTCCAGCCACCGCCCCACCCCGGGCTGAGCAGCGGGAGCAGGAAAGGGCTGTTTCGAGAGCAATGGGCAG
 AACGGGAACGGGAAATGGAGCGCCGGGAGAGGACTCGGTCTGAGAGAGAATGGGATCGGGACAAAGTTTCG
 AGAGGGACCCCGCTCCCGATCACGGTCCCGTGACCGCGCCGGAAGAGCGAGCAAAATCTAAAGAAAAG
 AAGAGTGAAGAAAGAAAGAAAGCCAGGAGGAGCCACCTGCCAAGCTGCTGGATGACCTCTTCCGTAAGA
 CTAAGGCAGCTCCCTGCATCTATTGGCTCCCTCTGACTGAGAGCCAAATTGTTTCAGAAGGAGGCAGAGCA
 AGCTGAACGGGCAAGGAGCGGGAGAAGCGGCGAAAAGAACGAGAAGAAGAACAAGGAACGGGAG
 AAGGAAGCTGAGCGGGAACGGAACCGGCAGCTAGAACGGGAGAAGAGGAGGGAGCACAGCAGGGAGAGAG
 AGAGGGACAGGGAGAGAGCGGGACAGGGGTACCGAGAGCGGGAGAGGGAGCGAGACCGAGACCGAGG
 CAGGGAGAGGGATCGCAGAGACCAAGCGCCACAGCAGAAGCCGGAGTGAAGCACACCTGTACGGGAC
 CGGGGTGGGCGCCGCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_001242605

Insert Size: 1698 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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001242605.1, NP_001229534.1</u>
RefSeq Size:	2454 bp
RefSeq ORF:	1698 bp
Locus ID:	56215
UniProt ID:	<u>Q9JIX8</u>
Cytogenetics:	14 C2
Gene Summary:	<p>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]</p>