

Product datasheet for **MC228272**

Acin1 (NM_001242606) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acin1 (NM_001242606) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Acin1
Synonyms:	2610036I19Rik; 2610510L13Rik; Acinus; acinusL; acinusS; Acn; C79325; mKIAA0670
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228272 representing NM_001242606
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACACCAGTAAAAACAGACCTGAAAAATGAGGTGCCTGAGCCTCCTCTGCCTGTTGCAGACCAAGTCA
 GCAATGATGAGCGCCAGAGGGTGGTGCTGAAGAAGAGGAAAAGAAAGAGAGTTCGATGCCCAAGTCATT
 CAAGAGGAAAATCTCCGTTGTCTCTACCAAGGGGGTGCAAGCTGAAAAACAGTGACACAGAGGGGGCCAG
 CCTGGCCGAAAACGCCGTTGGGGAGCCAGCACTGCCGCGACACAGAAGAAACCGTCCATCAGTATCACCA
 CTGAGTCACTCAAGGAGGCTGTTGTGGATCTTCATGCCGATGACTCCCGAATCTCTGAGGATGAGACAGA
 GCGTAATGGCGACGATGGGACCCATGACAAGGGACTGAAGATATGCCGGACAGTCACTCAGGTAGTACCC
 GCAGAGGGCCAGGAGAATGGGCAGAGGGAAGAGGAAGAAGAGAAAGAGCCTGAAGCCGAGCTGCCGGCC
 CACCCAGGTGTCAGTGGAGTTGCCTTGCCCCACCTGTGGAGCACGAAGTAAAGAAAGTAACATTAGG
 AGATACCTTAACCCGGAGTCCATCAGCCAACAGAAGTCTGGAGTTTCCATTACAATTGATGACCCAGTC
 CGGACCGCCAGGTGCCCTCCCCACCCAGGGGCAAGATCAGTAACATTGTCCACATCTCCAACTGGTTC
 GTCCTTCACTTTAGGCCAGCTGAAGGAATTATTGGGGCGTACAGGAACTTTGGTGGAAAGAGGCCTTCTG
 GATAGACAAGATCAAATCTCATTGCTTTGTGACGTAAGTCTACAGTAGAGGAAGCCGTTGCCACCCGACA
 GCTCTGCACGGGGTCAAGTGGCCCCAGTCCAACCCAAATTCCTTTGTGCTGACTATGCTGAGCAAGATG
 AGCTGGACTATCACCGGGGACTTTGGTAGATCGGCCATCTGAACTAAGGCAGAGGAACAGGGAGCACC
 AAGGCCCTGCATCCCCACCCACCCAGTCCAGCCACCGCCACCCCGGGCTGAGCAGCGGGAG
 CAGGAAAGGGCTGTTTCGAGAGCAATGGGCAGAACGGGAACGGGAAATGGAGCGCCGGGAGAGGACTCGT
 CTGAGAGAGAATGGGATCGGGACAAAGTTCGAGAGGGACCCCGTCCCGATCACGTTCCCGTGACCCGG
 CCGGAAAGAGCGAGCAAAATCTAAAGAAAAGAGAGTGAAGAAAGAAAAGCCAGGAGGAGCCACCT
 GCCAAGCTGCTGGATGACCTCTCCGTAAGACTAAGGCAGCTCCCTGCATCTATTGGCTCCCTCTGACTG
 AGAGCCAAATTGTTTCAGAAGGAGGCAGAGCAAGCTGAACGGGCCAAGGAGCGGGAGAAGCGGCGAAAAGA
 ACGAGAAGAAGAAGAAAAGGAAACGGGAGAAGGAAAGCTGAGCGGGAACGGAACCGGCAGCTAGAACGG
 GAGAAGAGGAGGGAGCACAGCAGGGAGAGAGAGGGACAGGGAGAGAGCGGGACAGGGGTGACCCAG
 AGCGGGAGAGGGAGCGAGACCGAGACCGAGGCAGGGAGAGGGATCGCAGAGACACCAAGCGCCACAGCAG
 AAGCCGGAGTCGAAGCACACCTGTACGGGACCGGGTGGGCGCCGT**AG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001242606
- Insert Size:** 1659 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.
RefSeq:	<u>NM_001242606.1</u> , <u>NP_001229535.1</u>
RefSeq Size:	2415 bp
RefSeq ORF:	1659 bp
Locus ID:	56215
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> <p>Transcript Variant: This variant (5) lacks a 5' exon and uses an alternate splice site in the coding region compared to variant 1. This variant represents translation initiation at a downstream AUG compared to variant 1; the 5'-most initiation codon, as used in variant 1, is associated with a weak Kozak sequence and a truncated ORF that would render the transcript a candidate for nonsense-mediated decay (NMD). Leaky scanning may allow translation initiation at the downstream AUG, which is associated with a strong Kozak sequence.</p>