

## Product datasheet for **MR224597**

### Acin1 (NM\_001085472) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Acin1 (NM_001085472) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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**ORF Nucleotide Sequence:**

>MR224597 representing NM\_001085472  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGATGTTCTCAGACAGCAGAGCAGGTGAAGAGAAGGAGGAAGTGACCATGGACACCAGTAAAAACAGAC  
 CTGAAAATGAGGTGCCTGAGCCTCTCGCTGTTGCAGACCAAGTCAGCAATGATGAGCGCCAGAGGG  
 TGGTGCTGAAGAAGAGGAAAAGAAAGAGAGTTCGATGCCCAAGTCATTAAGAGGAAAATCTCCGTTGTC  
 TCAGCTACCAAGGGGGTCAAGCTGAAACAGTGACACAGAGGGGGCCAGCCTGGCCGAAAACGCCGTT  
 GGGGAGCCAGCACTGCCGCGACACAGAAGAAACCGTCCATCAGTATCACCACTGAGTCACTCAAGAGCCT  
 CATCCCCGACATCAAACCCCTGGCGGGCAGGAGGCTGTTGTGGATCTTCATGCCGATGACTCCCGAATC  
 TCTGAGGATGAGACAGAGCGTAATGGCGACGATGGGACCCATGACAAGGGACTGAAGATATGCCGGACAG  
 TCACTCAGGTAGTACCCGAGAGGGCCAGGAGAATGGGCAGAGGGAAGAGGAAGAAGAGAAAGAGCCTGA  
 AGCCGAGCTGCCGCGCCACCCAGGTGTCACTGGAGGTTGCCTTGCCCCACCTGTGGAGCACGAAGTA  
 AAGAAAGTAACATTAGGAGATACCTTAACCCGGAGGTCCATCAGCCAACAGAAAGTCTGGAGTTTCCATTA  
 CAATTGATGACCCAGTCCGGACCGCCAGGTGCCCTCCCCACCCAGGGGCAAGATCAGTAACATTGTCCA  
 CATCTCCAACCTGGTTTCCTTCACTTTAGGCCAGCTGAAGGAATTATTGGGGCGTACAGGAACCTTTG  
 GTGGAAGAGGCCTTCTGGATAGACAAGATCAAATCTCATTGCTTTGTGACGTACTCTACAGTAGAGGAAG  
 CCGTTGCCACCCGCACAGCTCTGCACGGGGTCAAGTGGCCCCAGTCAACCCCAAATTCCTTTGTGCTGA  
 CTATGCTGAGCAAGATGAGCTGGACTATCACGGGGACTCTTGGTAGATCGGCCATCTGAAACTAAGGCA  
 GAGGAACAGGGAGCACCAAGGCCCTGCATCCCCACCCACCCACAGTCCAGCCACCGCCCAATGGAGCG  
 GGGCTGAGCAGCGGGAGCAGAAAGGGCTGTTGAGAGCAATGGGCAGAACCGGGAACGGAAATGGAGCG  
 CCGGGAGAGGACTCGGTCTGAGAGAGAATGGGATCGGGACAAAGTTTCGAGAGGGACCCCGCTCCCGATCA  
 CGGTCCCGTGACCGCGCCGAAAGAGCGAGCAAAATCTAAAGAAAAGAGAGTAAAAAGAAAAGAAAAG  
 CCCAGGAGGACCCACTGCCAAGCTGCTGGATGACCTCTTCCGTAAGACTAAGGCAGCTCCCTGCATCTA  
 TTGGCTCCCTCTGACTGAGAGCCAAATTGTTGAGAAGGAGGCAGAGCAAGCTGAACGGGCCAAGGAGCGG  
 GAGAAGCGCGAAAAGAACGAGAAGAAGAACAAGGAACGGGAGAAGGAAGCTGAGCGGGAACGGA  
 ACCGGCAGCTAGAACGGGAGAAGAGGAGGGAGCACAGCGGAGAGAGAGGGACAGGGAGAGAGAGCGG  
 GGACAGGGGTGACCGAGAGCGGGAGAGGGAGCGAGACCGAGCCAGGCAGGGAGAGGGATCGCAGAGAC  
 ACCAAGCGCCACAGCAGAAGCCGGAGTCAAGCACACCTGTACGGGACCGGGGTGGGCGCCGC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR224597 representing NM\_001085472  
 Red=Cloning site Green=Tags(s)

MMFSDSRAGEEKEEVTMDTSENRPENEVPEPLPVADQVSNDRPEGGAEKEEESMPKSFKRKISV  
 SATKGVQAGNSDTEGGQPGRKRRWGASTAATQKKPSISITTESLKSLIPDIKPLAGQEAVVDLHADDRI  
 SEDETERNGDDGTHDKGLKICRTVTQVPAEQENGQREEEEEKEPEAELPAPPQVSVEVALPPPVEHEV  
 KKVTLDGTLTRRSISQKSGVSIIDDPVRTAQVSPPRGKISNIVHISNLVRPFTLGLKELLGRTGTL  
 VEEAFWIDKIKSHCFVYSTVEEAVATRTALHGVKWPQSNPKFLCADIYAEQDELHYRGLLVDRPSETKA  
 EEQGAPRPLHPPPPPPVQPPHPRAEQREQERAVREQWAEREREMERRERTRSEREWRDRKVREGPRSR  
 RSRDRRRKERAKSKEKKSEKKEKAQEPPAKLLDDLFRKTKAAPCIYWLPLTESQIVQKEAEQAERAKER  
 EKRRKEREEEEQKEREKEAERERNRQLEREKRREHSRERERDRGRERERDRDRGRERDRR  
 TKRHSRSRSTPVRDRGRR

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001085472

**ORF Size:** 1743 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\\_001085472.2](#), [NP\\_001078941.2](#)

**RefSeq Size:** 2390 bp

**RefSeq ORF:** 1746 bp

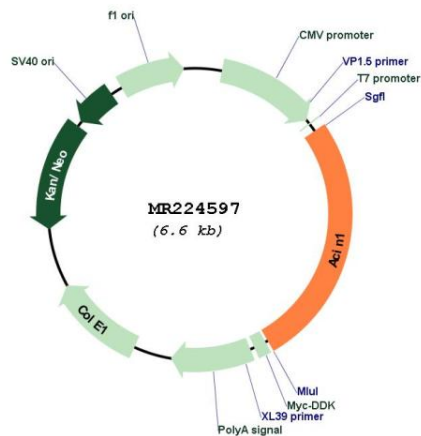
**Locus ID:** 56215

**Cytogenetics:** 14 C2

**MW:** 67.6 kDa

**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]

**Product images:**

Circular map for MR224597