

Product datasheet for **MR230537**

Acin1 (NM_001242605) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acin1 (NM_001242605) 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:

>MR230537 representing NM_001242605
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACACCAGTAAAAACAGACCTGAAAAATGAGGTGCCTGAGCCTCCTCTGCCTGTTGCAGACCAAGTCA
 GCAATGATGAGCGCCAGAGGGTGTGCTGAAGAAGAGGAAAAGAAAGAGAGTTCGATGCCCAAGTCATT
 CAAGAGGAAAATCTCCGTTGTCTCAGCTACCAAGGGGGTCAAGCTGGAACAGTGACACAGAGGGGGGC
 CAGCCTGGCCGAAAACGCCGTTGGGAGCCAGCACTGCCGCGACACAGAAGAAACCGTCCATCAGTATCA
 CCACTGAGTCACTCAAGAGCCTCATCCCGACATCAAACCCCTGGCGGGCAGGAGGCTGTTGTGGATCT
 TCATGCCGATGACTCCCGAATCTCTGAGGATGAGACAGAGCGTAATGGCGACGATGGGACCCATGACAAG
 GGACTGAAGATATGCCGGACAGTCACTCAGGTAGTACCCGACAGAGGGCCAGGAGAATGGGCAGAGGGAAG
 AGGAAGAAGAGAAAGAGCCTGAAGCCGAGCTGCCGGCCACCCAGGTGTGAGTGGAGGTTGCCTTGCC
 CCCACCTGTGGAGCAGAAAGTAAAGAAAGTAACATTAGGAGATACCTTAACCCGGAGGTCCATCAGCCAA
 CAGAAGTCTGGAGTTCCATTACAATTGATGACCCAGTCCGACCGCCAGGTGCCCTCCCCACCCAGGG
 GCAAGATCAGTAACATTGTCCACATCTCCAACCTGGTTCGTCCTTCACTTTAGGCCAGCTGAAGGAATT
 ATGGGGCGTACAGGAACCTTTGGTGAAGAGGCCCTTCTGGATAGACAAGTCAAATCTCATTGCTTTGTG
 ACGTACTCTACAGTAGAGGAAGCCGTTGCCACCCGCACAGCTCTGCACGGGGTCAAGTGGCCCCAGTCCA
 ACCCCAAATTCCTTTGTGCTGACTATGCTGAGCAAAGTGAAGTGGACTATCACCGGGGACTCTTGGTAGA
 TCGGCCATCTGAAACTAAGGCAGAGGAACAGGGAGCACAAGGCCCTGCATCCCCACCCACCCCA
 GTCCAGCCACCGCCACCCCGGGCTGAGCAGCGGGAGCAGGAAAGGGCTGTTTCGAGAGCAATGGGCAG
 AACGGGAACGGGAAATGGAGCGCCGGGAGAGACTCGTCTGAGAGAGAATGGGATCGGGACAAAGTTTCG
 AGAGGGACCCCGCTCCCGATCACGGTCCCGTGACCGCCGCGAAAGAGCGAGCAAAATCTAAAGAAAAG
 AAGAGTAAAAGAAAAGAAAAGCCAGGAGGACACCTGCCAAGCTGCTGGATGACCTTCTCCGTAAGA
 CTAAGGCAGTCCCTGCATCTATTGGCTCCCTCTGACTGAGAGCCAAATTGTTCAAGAGGAGGCAGAGCA
 AGCTGAACGGGCCAAGGAGCGGGAGAAGCGGCGAAAAGAAGAGAAAGAAAGAAAGAAAGAAAGGACGGGAG
 AAGGAAGTGAAGCGGAAACGGAACCGGCAGCTAGAACGGGAGAAGAGGAGGGAGCACAGCAGGGAGAGAG
 AGAGGGACAGGGAGAGAGCGGGACAGGGGTGACCGAGAGCGGGAGAGGGAGCGAGACCGAGCCGAGG
 CAGGGAGAGGGATCGCAGAGACCAAGCGCCACAGCAGAAGCCGGAGTGAAGCACACCTGTACGGGAC
 CGGGTGGGCGCCGC

**ACCGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence:

>MR230537 representing NM_001242605
 Red=Cloning site Green=Tags(s)

MDTSENRPENEVPEPPLPVADQVSNDRPEGGAEEEEKKESSMPKSFKRKISVVSATKGVQAGNSDTEGG
 QPGRKRRWGASTAATQKKPSISITTESLKSLIPDIKPLAQEAVVDLHADDRISEDETERNGDDGTHDK
 GLKICRTVTQVPAEQENGQREEEEEKEPEAELPAPPQVSVEVALPPPVEHEVKKVTLGDTLRRRSISQ
 QKSGVSIIDDPVRTAQVSPPRGKISNIVHISNLVRPFTLGLKELLGRTGTLVEEAFWIDKIKSHCFV
 TYSTVEEAVATRTALHGKWPQSNPKFLCADIYAEQDELHYHRGLLVDRPSETKAEQAGAPRPLHPPPPPP
 VQPPHPRAEQREQERAVREQWAEREREMERRERTRSEREWDRDKVREGPRSRSRDRRRRERAKSKEK
 KSEKKEKAQEPPAKLLDDLFRKTKAAPCIYWLPLTESQIVQKEAEQAERAKEREKRRKEREEREEQKERE
 KEAERERNRQLEREKRREHSRERERDRERERDRDRGRERDRDRDKRHSRSRSTPVDR
 RGGRR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001242605

ORF Size: 1695 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_001242605.1](#), [NP_001229534.1](#)

RefSeq Size: 2454 bp

RefSeq ORF: 1698 bp

Locus ID: 56215

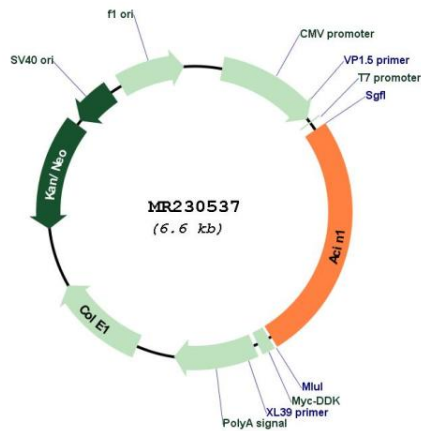
UniProt ID: [Q9JIX8](#)

Cytogenetics: 14 C2

MW: 65.8 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 MR230537