

Product datasheet for **MR230483**

Acin1 (NM_001242606) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acin1 (NM_001242606) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR230483 representing NM_001242606
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACACCAGTGAAAACAGACCTGAAAATGAGGTGCCTGAGCCTCCTCTGCCTGTTGCAGACCAAGTCA
 GCAATGATGAGCGCCAGAGGGTGGTGCTGAAGAAGAGGAAAAGAAAGAGAGTTCGATGCCCAAGTCATT
 CAAGAGGAAAATCTCCGTTGTCTCTACCAAGGGGTGCAAGCTGAAAACAGTGACACAGAGGGGGCCAG
 CCTGGCCGAAAACGCCGTTGGGGAGCCAGCACTGCCGCGACACAGAAGAAACCGTCCATCAGTATCACCA
 CTGAGTCACTCAAGGAGGCTGTTGTGGATCTTCATGCCGATGACTCCCGAATCTCTGAGGATGAGACAGA
 GCGTAATGGCGACGATGGGACCCATGACAAGGGACTGAAGATATGCCGGACAGTCACTCAGGTAGTACCC
 GCAGAGGGCCAGGAGAATGGGCAGAGGGAAGAGGAAGAAGAGAAAGAGCCTGAAGCCGAGCTGCCGGCGC
 CACCCAGGTGTCAGTGGAGTTGCCTTCCCCACCTGTGGAGCACGAAGTAAAGAAAGTAACATTAGG
 AGATACCTTAACCCGAGGTCCATCAGCCAACAGAAGTCTGGAGTTTCCATTACAATTGATGCCAGTC
 CGGACCGCCAGGTGCCCTCCCCACCCAGGGGCAAGATCAGTAACATTGTCCACATCTCCAACTGGTTC
 GTCCTTCACTTTAGGCCAGCTGAAGGAATTATTGGGGCGTACAGGAACCTTGGTGGAAAGAGGCCTTCTG
 GATAGACAAGATCAAATCTCATTGCTTTGTGACGTACTCTACAGTAGAGGAAGCCGTTGCCACCCGCACA
 GCTCTGCACGGGGTCAAGTGGCCCCAGTCCAACCCAAATTCCTTTGTGCTGACTATGCTGAGCAAGATG
 AGCTGGACTATCACCGGGGACTCTTGGTAGATCGGCCATCTGAACTAAGGCAGAGGAACAGGGAGCACC
 AAGGCCCTGCATCCCCACCCACCCAGTCCAGCCACCGCCACCCCGGGCTGAGCAGCGGGAG
 CAGGAAAGGGCTGTTTCGAGAGCAATGGGCAGAACGGGAACGGGAAATGGAGCGCCGGGAGAGGACTCGT
 CTGAGAGAGAATGGGATCGGGACAAAGTTCGAGAGGGACCCCGCTCCCGATCAGGTCCTGACCGCCG
 CCGGAAAGAGCGAGCAAATCTAAAGAAAAGAGAGTGAAGAAAGAAAAGCCAGGAGGAGCCACCT
 GCCAAGCTGCTGGATGACCTCTCCGTAAGACTAAGGCAGCTCCCTGCATCTATTGGCTCCCTCTGACTG
 AGAGCCAAATTGTTCAGAAGGAGGCAGAGCAAGCTGAACGGGCCAAGGAGCGGGAGAAGCGGCGAAAAGA
 ACGAGAAGAAGAAGAAAAGGAAACGGGAGAAGGAAAGCTGAGCGGGAACGGAACCGGCAGCTAGAACGG
 GAGAAGAGGAGGGAGCACAGCAGGGAGAGAGAGGGACAGGGAGAGAGCGGGACAGGGGTGACCGAG
 AGCGGGAGAGGGAGCGAGACCGAGACCGAGGCAGGGAGAGGGATCGCAGAGACACCAAGCGCCACAGCAG
 AAGCCGGAGTCGAAGCACACCTGTACGGGACCGGGGTGGGCGCCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230483 representing NM_001242606
 Red=Cloning site Green=Tags(s)

MDTSENRPENEVPEPPLPVADQVSNDRPEGGAEEEEKESMPKSFKRKISVSVTKGVQAGNSDTEGGQ
 PGRKRRWGASTAATQKKPSISITTESLKEAVVDLHADDRISEDETERNGDDGTHDKGLKICRTVTQVVP
 AEGQENGQREEEEEKEPEAELPAPPQVSVEVALPPPVEHEVKKVTLGDTLTRRSISQKSGVSITIDDPV
 RTAQVPSPPRGKISNIVHISNLVRFPTLQQLKELLGRTGTLVEEAFWIDKIKSHCFVTYSTVEEAVART
 ALHGKWPQSNPKFLCADIYAEQDELHYRGLLVDRPSETKAEEQGAPRPLHPPPPPPVQPPHPRAEQRE
 QERAVREQWAEREREMERRERTRSEREWDRDKVREGPRSRSRDRRRKERAKSKEKKSEKKEKAQEPP
 AKLLDDLFRKTKAAPCIYWLPLTESQIVQKEAEQAERAKERKRRKEREERERERERERERERERERER
 EKRRHSRERERDRERDRGRERERDRDRGRERDRDRDKRHSRSRSTPVRDRGGRR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

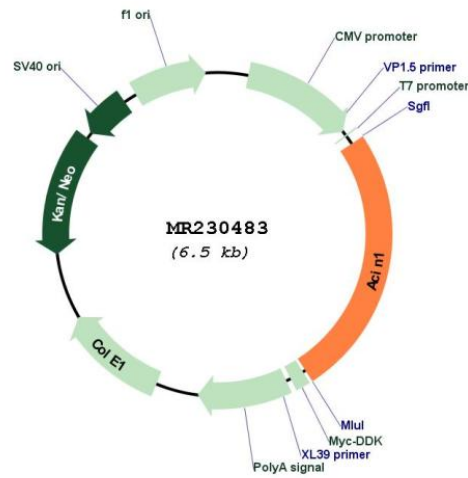
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001242606
ORF Size:	1656 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:	<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:	NM_001242606.1 , NP_001229535.1
RefSeq Size:	2415 bp
RefSeq ORF:	1659 bp
Locus ID:	56215
Cytogenetics:	14 C2
MW:	64.5 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]