

Product datasheet for **RG228670**

Acinus (ACIN1) (NM_001164815) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acinus (ACIN1) (NM_001164815) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ACIN1
Synonyms:	ACINUS; ACN; fSAP152
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG228670 representing NM_001164815 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGAGACGGAACATCCGAGGACATCCGAGGAACCCGGGGAGTTCTGAGTGGTAATCGAGGGGTAG
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CCATGCTGCATTCCAGCCAAATCCAGATTGGTGAGGAAATGAGCCAGAACAGTTTCATAAAACAGTAT
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CTAAAAATTGAGGAATTAGCACTGGCCAAAGGAATCACTGAAGAATGTCTGAAACAGCCATCTTTGGAAC
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ACAGCAGAAGCCGGAGTCCGAGCACACCTGTGCGGGACCGGGTGGGCGCCGC

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG228670 representing NM_001164815
 Red=Cloning site Green=Tags(s)

MWRRKHPRTSGGTRGVL SGNRGVEYGSGRGHLGTFEGRWRKLPKMPEAVGTD PSTRKMALEEVTLDGK
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 LAGQEA VVDLHADD SRISEDETERNGDDGTHDKGLKICRTVTQV VPAEQENGQREEEEEKEPEAPPV
 PPQVSVEVALPPPAEHEVKVTLGDTL TRRSISQKSGVSITIDDPVRTAQVPSPPRGKISNIVHISNLV
 RPF TLGQLKELLGRTGLV EEFWIDKIKSHCFV TYSTVEEAVATRTALHGKWPQSNPKFLCADYAEQD
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 SEREWRDKVREGPRSRSRDRRRRKERAKSKEKKSEKKEKAQEPPAKLLDDLFRKTKAAPCIYWLPLT
 DSQIVQKEAERAERAKEREKRRKEQEEEQKEREKEAERERNRQLEREKRREHSRERDRERERERDRG
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TRTRPLE - GFP Tag - V

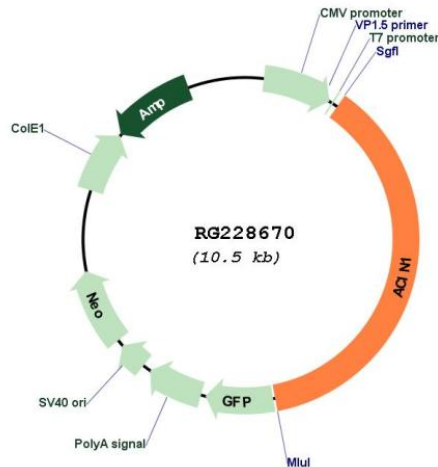
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001164815

ORF Size: 3903 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_001164815.1](#), [NP_001158287.1](#)

RefSeq Size: 4828 bp

RefSeq ORF: 3906 bp

Locus ID: 22985

UniProt ID: [Q9UKV3](#)

Cytogenetics: 14q11.2

Protein Pathways: Spliceosome

Gene Summary: Apoptosis is defined by several morphologic nuclear changes, including chromatin condensation and nuclear fragmentation. This gene encodes a nuclear protein that induces apoptotic chromatin condensation after activation by caspase-3, without inducing DNA fragmentation. This protein has also been shown to be a component of a splicing-dependent multiprotein exon junction complex (EJC) that is deposited at splice junctions on mRNAs, as a consequence of pre-mRNA splicing. It may thus be involved in mRNA metabolism associated with splicing. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Oct 2011]