

## Product datasheet for **RG228475**

### Acinus (ACIN1) (NM\_001164817) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Acinus (ACIN1) (NM_001164817) 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)



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**ORF Nucleotide Sequence:**

>RG228475 representing NM\_001164817  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTATCAGAAAGCAAAGAAGGTGAGGAGAAGGAGGAAGTGACCATGGACACAAGTGAAAAACAGACCTG  
 AAAATGATGTTCCAGAACCTCCCATGCCTATTGCAGACCAAGTCAGCAATGATGACCGCCGGAGGGCAG  
 TGTTGAAGATGAGGAGAAGAAAGAGAGCTCGCTGCCCAAATCATTCAAGAGGAAGATCTCCGTTGTCTCA  
 GCTACCAAGGGGGTGCCAGCTGGAAACAGTGACACAGAGGGGGCCAGCCTGGTCGGAAACGACGCTGGG  
 GAGCCAGCACAGCCACCACAGAAACCTTCCATCAGTATCACCACTGAATCACTAAAGAGCCTCAT  
 CCCCAGACATAAACCCCTGGCGGGCAGGAGGCTGTTGTGGATCTTCATGCTGATGACTCTCGCATCTCT  
 GAGGATGAGACAGAGCGTAATGGCGATGATGGGACCCATGACAAGGGGCTGAAAAATGCCGGACAGTCA  
 CTCAGGTAGTACCTGCAGAGGGCCAGGAGAATGGGCAGAGGAAGAAGAGGAAGAAGAGAAGGAACCTGA  
 AGCAGAACCTCCTGTACCTCCCCAGGTGTCACTAGAGGTGGCCTTGCCCCACCTGCAGAGCATGAAGTA  
 AAGAAAGTGACTTTAGGAGATACCTTAACCTCGAGTTCCATTAGCCAGCAGAAGTCCGGAGTTTCCATTA  
 CCATTGATGACCCAGTCCGAAGTCCCAGGTGCCCTCCCCACCCCGGGCAAGATTAGCAACATTGTCCA  
 TATCTCCAATTTGGTCCGTCTTTCACTTTAGGCCAGCTAAAGGAGTTGTTGGGGCGCACAGGAACCTTG  
 GTGGAAGAGGCCTTCTGGATTGACAAGTCAAATCTCATTGCTTTGTAACGTACTCAACAGTAGAGGAAG  
 CTGTTGCCACCCGCACAGCTCTGCACGGGGTCAAATGGCCCCAGTCCAATCCCAAATTCCTTTGTGCTGA  
 CTATGCCGAGCAAGATGAGCTGGATTATCACCGAGGCCTTTGGTGGACCGTCCCTCTGAACTAAGACA  
 GAGGAGCAGGGAATACCACGGCCCTGCACCCCAACCCCAACCCCGGTCCAGCCACCACAGCACCCCC  
 GGGCAGAGCAGCGGGAGCAGGAACGGGCAGTGGCGAAGCAGTGGGCAAGCAGGGAACGGGAAATGGAGCG  
 GCGGGAGCGGACTCGATCAGAGCGTGAATGGGATCGGGACAAAGTTTCGAGAAGGGCCCGTTCCCGATCA  
 AGGTCCCGTGACCGCCGCCAAGGAACGTGCGAAGTCTAAAGAAAAGAAGTGAAGAAGAAGAGAAAG  
 CCCAGGAGGAACCACTGCCAAGCTGCTGGATGACCTTTTCCGAAAGACCAAGGCAGCTCCCTGCATCTA  
 TTGGCTCCCACTGACTGACAGCCAGATCGTTCCAGAAAGAGGCAGAGCGGGCCGACGGGCAAGGAGCGG  
 GAGAAGCGGCAAGGAGCAAGAAGAAGAAGAGCAAAAGGAGCGGGAGAAGGAAGCCGAGCGGGAACGGA  
 ACCGACAGCTGGAGCGAGAGAAACGTGGGAGCACAGTGGGAGAGGGACAGGGAGAGAGAGAGAGAAAG  
 GGAGCGGACAGGGGGACCGAGATCGGGATAGGGAAAGGGACCGAGAACGAGGCAGGGAAGGGATCGC  
 AGGGACACCAAGCGCCACAGCAGAAGCCGGAGTCGGAGCACACCTGTGCGGGACCGGGTGGGCGCCGC

**ACGCGTACGCGGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG228475 representing NM\_001164817  
 Red=Cloning site Green=Tags(s)

MLSESKEGEEKEEVTMDTSENRPENDVPEPPMPIADQVSNDDRPEGSVEDEEKKESSLPKSFKRKISVVS  
 ATKGVPAGNSDTEGGQPRKRRWGASTATTQKKPSISITTESLKSLIPDIKPLAQEAVVDLHADDSTRIS  
 EDETERNGDDGTHDKGLKICRTVTQVVPVPAEQENGQREEEEEKEPEAEPPVPPQVSVEVALPPPAEHEV  
 KKVTLGDTLRRSISQKSGVSIIDDPVRTAQPSPPRGKISNIVHISNLVRPFTLGQLKELLGRTGTL  
 VEEAFWIDKIKSHCFVYSTVEEAVATRTALHGVKWPQSNPKFLCADYAEQDELHYRGLLVDRPSETKT  
 EEQGIPRPLHPPPPVQPPQHPRAEQREQERAVREQWAEREREMERRERTRSEREWRDRDKVREGPRRSR  
 RSRDRRRKERAKSKEKKSEKKEKAQEPPAKLLDDLFRKTKAAPCIYWLPLTDSQIVQEAERAERAKER  
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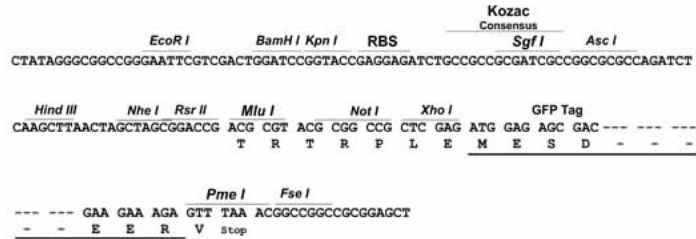
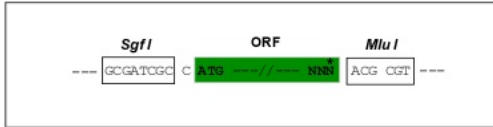
**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

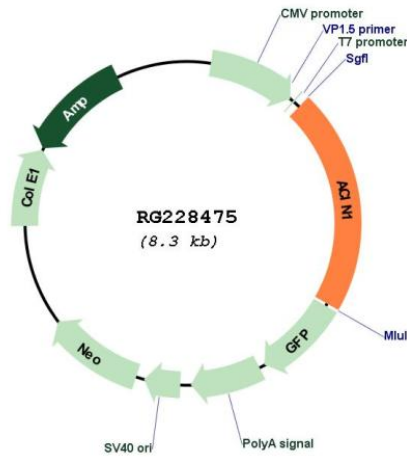
SgfI-MluI

### Cloning Scheme:

Cloning sites used for ORF Shuttling:



### Plasmid Map:



ACCN: NM\_001164817

ORF Size: 1749 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001164817.2</a>
<b>RefSeq Size:</b>	2529 bp
<b>RefSeq ORF:</b>	1752 bp
<b>Locus ID:</b>	22985
<b>UniProt ID:</b>	<a href="#">Q9UKV3</a>
<b>Cytogenetics:</b>	14q11.2
<b>Protein Pathways:</b>	Spliceosome
<b>Gene Summary:</b>	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]