

Product datasheet for **RG205402**

ACTRT1 (NM_138289) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACTRT1 (NM_138289) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ACTRT1
Synonyms:	AIP1; ARIP1; ARPT1; HSD27
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205402 representing NM_138289 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTTAAATCCACATGCATTAGATGTTCTGCTGTAATTTTTGACAATGGTTCAGGACTCTGCAAAGCAG
GCCTGTCTGGAGAGATTGGACCCCGCCATGTCATCAGCTCCGTCTGGGACATTGTAATTCATGTGCC
TTTAGCAAGACTTAATCAGAAGTACTTCGTGGGCAAGAAGCCCTGTACAAGTATGAGGCCCTACATTTG
CACTACCCATTGAGCGTGGACTGGTAACAGGATGGGATGACATGGAGAACTCTGGAAACATCTCTTTG
AGCGGGAGCTTGGAGTAAACCCAGCCAACAGCCTGTACTTATGACCGAGCCCTTTGAATCCTAGGGA
AATTCGAGAAAAGCTAGCAGAAATGATGTTTGGAGACCTTCAGTGTGCCTGGTTTCTACCTGTCTAATCAT
GCGGTGGCAGCGCTCTATGCCTCTGCCTGTGTCACAGGCCTGGTGGTGGACAGTGGAGATGGGGTCACTT
GCACTGTCCCCATCTTTGAGGGTACTCCCTGCCTCACGCAGTACCAAACTCTGTATGGCAGGGAGGGA
CATCACAGAGCACCTCACCCGGCTCCTCTTTGCTAGCGGGTTAACTTCCCTTGCATACTCAACAAGGCC
GTGGTAAATAACATCAAAGAGAAGTTGTGCTACATCGCCTTGGAGCCAGAGAAAGAGCTACGCAAGAGCC
GGGAGAGGTCTGGGAGCATACAGACTGCCAGATGGACATGTCATCCACTTTGGGGATGAGCTGTACCA
AGTGCCCGAGGTTCTTTTGCACCTGACCAGCTGGGCATCCACAGCCAGGACTCTCAAAAATGGTCTCC
AGCAGCATCATGAAGTGTGACACTGACATCCAGAATAAACTTTATGCAGACATTGACTCTCCGGGGCA
CCACTCTCTCCCTGGGCTGGAGGAAAGGCTCATGAAGGAAGTGAACAGCTGGCTTCCAAGGTACTCC
CATCAAGATCACAGCTTCTCCTGATAGATGCTTCTCTGCATGGATTGGTGCATCCATCATGACCTCTATG
AGCAGTTTCAAGCAGATGTGGTACCTCGCAGACTTCAAGGATATGGGACATCTGTGGTTCAAAGAA
GGTGCTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205402 representing NM_138289
 Red=Cloning site Green=Tags(s)

MFNPHALDVPVAVIFDNGSGLCKAGLSGEIGPRHVISSVLGHCKFNVPLARLNQKYFVGQEALYKYEALHL
 HYPITERGLVTGWDDMEKLWKHLFERELGVKPSQQPVLMTPEPSLNPREIREKLAEMMFETFVSPGFYLSNH
 AVAALYASACVTGLVVDSDGVTCTVPIFEGYSLPHAVTKLCMAGRDITEHLTRLLFASGFNFPCILNKA
 VVNNIKEKLCYIALEPEKELRKSARGEVLGAYRLPDGHVIHFGELEYQVPEVLFAPDQLGIHSPGLSKMVS
 SSMKCDTDIQNKLYADIIVLSGGTLLPGLLEERLMKEVEQLASKGTPIKITASPDRCFSAWIGASIMTSM
 SSFKQMWVTSADFKKEYGTSVVQRRCF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_138289

ORF Size: 1128 bp

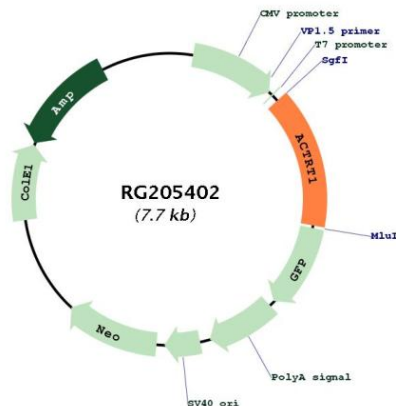
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<u>NM_138289.4</u>
RefSeq Size:	1454 bp
RefSeq ORF:	1131 bp
Locus ID:	139741
UniProt ID:	<u>Q8TDG2</u>
Cytogenetics:	Xq25
Gene Summary:	This gene encodes a protein related to the cytoskeletal protein beta-actin. This protein is a major component of the calyx in the perinuclear theca of mammalian sperm heads, and it therefore likely functions in spermatid formation. This gene is intronless and is similar to a related gene located on chromosome 1. A related pseudogene has also been identified approximately 75 kb downstream of this gene on chromosome X. [provided by RefSeq, May 2010]

Product images:



Circular map for RG205402