

Product datasheet for RC215366

ACK1 (TNK2) (NM_001010938) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACK1 (TNK2) (NM_001010938) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ACK1
Synonyms:	ACK; ACK-1; ACK1; p21cdc42Hs
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215366 representing NM_001010938 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

ATGCTCGAGGCCCGCCCCAGGACGCAGGGCAGTGACGCTGCCGGTGCCGCTGCGGGGCGGGGGCTGC
GGGCGTGCTTCTCTCCCTGACCGCAGCCGCTGGGATTTGGGGCTCCATGGGGGAGAGATCTGCTTACCA
GCGCCTGGCTGGGGGCGAGGAGGACCGCAGAGGCTGGGAGGCGGCAGAATGCAGCCAGAGGAGGGCACA
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ACGTCACCCGCCCTGTCCACTTTGAGTACGTCAAGAATGAGGACCTGGAGAAGATCGGCATGGGTGCGCC
TGCCAGCGGCGGCTGTGGGAGGCTGTGAAGAGGAGGAAGGCCTTGTGCAAACGCAAGTCGTGGATGAGT
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GGACCTGCGCCTCCTGGAGAAGCTGGGTGATGGTTCCTTTGGCGTGGTGCAGGGGCGAGTGGGACGCG
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CAGAACACACGGACGCTGTGTGTGGGGCCCTCCCTCGCAACGTGGTGACCTCCGTGGCCGGCCTGTCCG
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 CTGCTGGGGCTTCCCGGACAGGATTGACGAAGTGTATCTGGGAAACCCATGGACCCCCCGACCTCCTG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC215366 representing NM_001010938
 Red=Cloning site Green=Tags(s)

MLEARPPRTQGSDAAGAAAGRGLRALLLSLTAAGIWSMERSAYQRLAGGEEGPQRLGGGRMQPEEGT
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 PSGKTVSVAVKCLKPDVLSQPEAMDDFIREVNHSLDHRNLIRLYGVVLTPPMKMVTELAPLGSLLDRL
 RKHQGHFLLGTLSTRYAVQVAEGMGYLESKRFIHRDLAARNLLLATRDLVKIGDFGLMRALPQNDHYVMQ
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 QDIYNVMVQCWAHKPEDRPTFVALRDFLLEAQPTDMRALQDFEEDPKLHIQMNDVITVIEGRAENYWRG
 QNTRTLCVGPFPFNNVTSVAGLSAQDISQPLQNSFIHTGHGSDPRHCWGFDRIDELYLGNPMDPPDLL
 SVELSTSRPPQHLGGVKREPPPPQPAFFTQKPTYDPSVSEDQDPLSSDFKRLGLRKPGLPRGLWLAKPS
 ARVPGTKASRGSAGAEVTLIDFGEPPVVPALRPCAPSLAQLAMDACSLLETPPQSPTRALPRPLHPTPVV
 DWDARPLPPPPAYDDVAQDEDDFEICSNSTLVGAGVPAGPSQGQTNAYFVPEQARPPPLEDNLFLPPQ
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 IQAPGPRAGPCILPIVRDGKVSSTHYLLPERPSYLERVQRFLEAQSPEEPTPLPVPLLLPPPSTPAP
 AAPTATVPRMPQAALDPKANFSTNNSNPGARPPPRATARLPQRGCPGDGPEAGRPADKIQMVEQLFGLG
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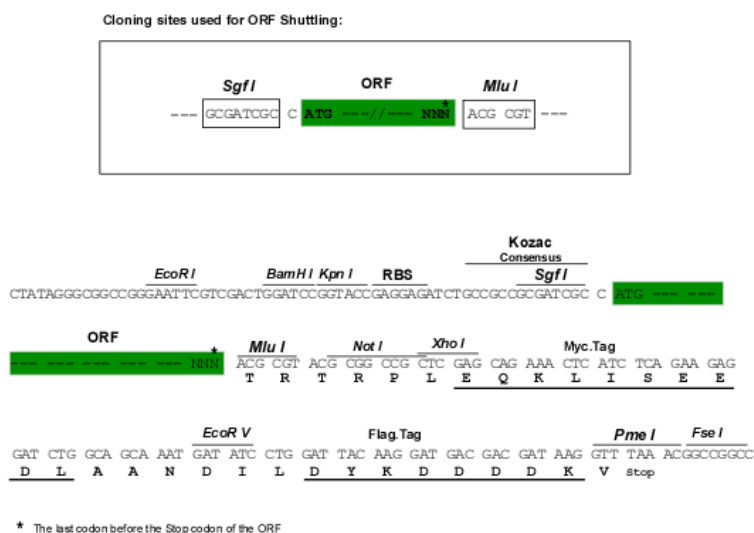
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8119_f04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001010938

ORF Size: 3258 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_001010938.1](#), [NP_001010938.1](#)

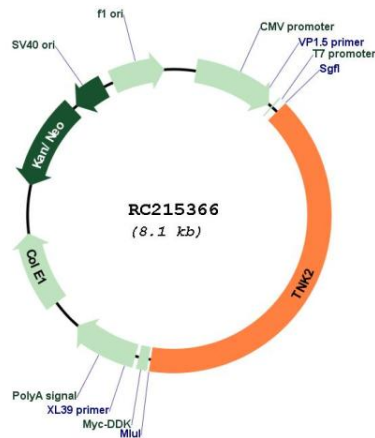
RefSeq Size: 4222 bp

RefSeq ORF: 3144 bp

Locus ID: 10188

UniProt ID:	<u>Q07912</u>
Cytogenetics:	3q29
Protein Families:	Druggable Genome, Protein Kinase
MW:	119.35 kDa
Gene Summary:	This gene encodes a tyrosine kinase that binds Cdc42Hs in its GTP-bound form and inhibits both the intrinsic and GTPase-activating protein (GAP)-stimulated GTPase activity of Cdc42Hs. This binding is mediated by a unique sequence of 47 amino acids C-terminal to an SH3 domain. The protein may be involved in a regulatory mechanism that sustains the GTP-bound active form of Cdc42Hs and which is directly linked to a tyrosine phosphorylation signal transduction pathway. Several alternatively spliced transcript variants have been identified from this gene, but the full-length nature of only two transcript variants has been determined. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC215366