

Product datasheet for RC215366L3

OriGene Technologies, Inc.

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ACK1 (TNK2) (NM_001010938) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: ACK1 (TNK2) (NM_001010938) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: ACK1

Synonyms: ACK; ACK-1; ACK1; p21cdc42Hs

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

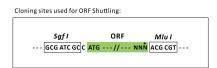
E. coli Selection: Chloramphenicol (34 ug/mL)

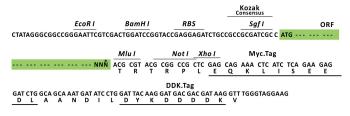
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC215366).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_001010938

ORF Size: 3258 bp





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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: <u>NM 001010938.1</u>, <u>NP 001010938.1</u>

 RefSeq Size:
 4222 bp

 RefSeq ORF:
 3144 bp

 Locus ID:
 10188

 UniProt ID:
 Q07912

 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]