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Product datasheet for SC128079

ACK1 (TNK2) (NM_005781) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACK1 (TNK2) (NM_005781) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACK1
Synonyms:	ACK; ACK-1; ACK1; p21cdc42Hs
Mammalian Cell Selection:	None
Vector:	pCMV6-XL6
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_005781 edited
CCGGGATCGCGGAGCCGGCTGAGCGCAGGGCCGAGCTGCGGGGCAGAGGCTGGGAGGCGG
CAGAATGCAGCCAGAGGAGGGCACAGGCTGGCTGCTGGAGCTGCTGTCCGAGGTGCAGCT
GCAACAGTACTTCCTGCGGCTCCGAGACGACCTCAACGTCACCCGCCTGTCCCACTTTGA
GTACGTCAAGAATGAGGACCTGGAGAAGATCGGCATGGGTCGGCCTGGCCAGCGGCGGCT
GTGGGAGGCTGTGAAGAGGAGGAAGGCCTTGTGCAAACGCAAGTCGTGGATGAGTAAGGT
GTTCAGTGGAAAGCGACTGGAGGCTGAGTTCCCACCTCATCACTCTCAGAGCACCTTCCG
GAAGACCTCGCCCGCCCCTGGGGGCCCAGCAGGGGAGGGGCCCCTGCAGAGCCTCACCTG
CCTCATTGGGGAGAAGGACCTGCGCCTCCTGGAGAAGCTGGGTGATGGTTCCTTTGGCGT
GGTGCGCAGGGGCGAGTGGGACGCGCCCTCAGGGAAGACGGTGAGTGTGGCTGTGAAGTG
CCTGAAGCCCGATGTCCTGAGCCAGCCAGAAGCCATGGACGACTTCATCCGGGAGGTCAA
TGCCATGCACTCGCTCGACCACCGAAACCTCATCCGCCTCTACGGGGTGGTGCTCACGCC
GCCCATGAAGATGGTGACAGAGCTGGCACCTCTGGGATCGTTGTTGGACCGGCTACGTAA
GCACCAGGGCCACTTCCTCCTGGGGACTCTGAGCCGCTACGCTGTGCAGGTGGCTGAGGG
CATGGGCTACCTGGAGTCCAAGCGCTTTATTCACCGTGACCTGGCTGCCCGCAATCTGCT
GTTGGCTACCCGCGACCTGGTCAAGATCGGGGACTTTGGGCTGATGCGAGCACTACCTCA
GAATGACGACCATTACGTCATGCAGGAACATCGCAAGGTGCCCTTCGCCTGGTGTGCCCC
CGAGAGCCTGAAGACACGTACCTTCTCCCATGCCAGCGACACCTGGATGTTCGGGGTGAC
ACTGTGGGAAATGTTCACCTACGGCCAGGAGCCCTGGATCGGCCTCAACGGCAGTCAGAT
CCTGCATAAGATCGACAAGGAGGGGGAGCGGCTGCCCCGGCCCGAGGACTGTCCCCAGGA
CATCTACAACGTCATGGTCCAGTGCTGGGCTCACAAGCCAGAGGACAGACCCACGTTTGT
GGCCCTGCGGGACTTCCTGCTGGAGGCCCAGCCCACAGACATGCGGGCCCTTCAGGACTT
TGAGGAACCGGACAAGCTGCACATCCAGATGAATGATGTCATCACCGTCATCGAGGGAAG
GGCCGAGAACTACTGGTGGCGTGGCCAGAACACACGGACGCTGTGTGTGGGGCCCTTCCC
TCGCAACGTGGTGACCTCCGTGGCCGGCCTGTCGGCCCAGGACATCAGCCAGCCCCTGCA
GAACAGCTTCATCCACACAGGGCATGGCGACAGTGACCCCCGCCACTGCTGGGGCTTCCC
GGACAGGATTGACGAACTGTATCTGGGAAACCCCATGGACCCCCCCGACCTCCTGAGCGT

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GGAACTGAGCACCTCCCGGCCCCCCCAGCATCTAGGAGGGGTGAAAAAACCAACCTATGA
CCCTGTGAGCGAGGACCAAGACCCCTTGTCCAGCGACTTCAAGAGGCTGGGCCTGCGGAA
GCCAGGCCTGCCCCGAGGGCTGTGGCTGGCGAAGCCCTCGGCGCGGGTGCCGGGCACCAA
GGCCAGCCGAGGCAGCGGGGCTGAGGTCACGCTCATCGACTTCGGTGAGGAGCCCGTGGT
CCCGGCCCTACGGCCCTGCGCGCCCTCCCTGGCGCAGCTGGCCATGGACGCCTGCTCCCT
GCTGGACGAGACCCCGCCTCAGAGCCCCACGCGGGCACTGCCCCGGCCCCTGCACCCCAC
GCCTGTGGTGGACTGGGACGCACGCCCGCTGCCCCCCCCGCCCGCCTATGACGACGTGGC
CCAGGATGAGGATGACTTTGAGATCTGCTCCATCAACAGCACCCTCGTGGGCGCGGGGGT
CCCTGCCGGGCCCAGCCAGGGCCAGACCAACTACGCCTTTGTGCCTGAGCAGGCGCGGCC
GCCCCCTCCCCTGGAGGACAACCTGTTCCTCCCGCCCCAGGGTGGGGGCAAGCCGCCCAG
CTCCGCACAGACCGCAGAGATCTTCCAGGCGCTACAGCAGGAGTGCATGAGGCAACTGCA
GGCTCCGGCCGGCTCCCCGGCCCCCTCTCCCAGCCCGGGGGGTGACGACAAGCCCCAGGT
GCCTCCTCGGGTACCCATCCCCCCTCGGCCCACGCGCCCACACGTCCAGCTGTCTCCAGC
CCCCCCGGGCGAGGAGGAGACCAGCCAGTGGCCTGGACCTGCTTCCCCTCCCCGGGTGCC
TCCGCGGGAGCCCCTGTCCCCTCAAGGCTCGAGGACACCCAGCCCCCTGGTACCACCTGG
CAGCTCCCCGCTGCCACCCCGGCTCTCAAGCTCACCTGGGAAGACCATGCCCACCACCCA
GAGCTTTGCCTCAGACCCCAAGTACGCCACCCCCCAGGTGATCCAGGCCCCTGGCCCGCG
GGCTGGTCCCTGCATCCTGCCCATCGTCCGGGATGGCAAGAAGGTCAGCAGCACCCACTA
TTACTTGCTGCCCGAGCGACCATCCTACCTGGAGCGCTACCAGCGCTTCCTGCGTGAGGC
CCAGAGCCCCGAGGAGCCTACCCCCCTGCCTGTGCCTCTGCTGCTGCCCCCACCCAGCAC
CCCAGCCCCCGCCGCCCCCACGGCCACCGTGCGGCCGATGCCCCAGGCTGCCTTGGACCC
CAAGGCCAACTTCTCCACCAACAACAGCAACCCAGGGGCCCGGCCACCACCCCCGAGGGC
CACTGCTCGGCTGCCACAGAGGGGCTGCCCTGGCGATGGGCCAGAGGCGGGCCGGCCAGC
AGACAAGATCCAGATGCTGCAGGCCATGGTGCATGGGGTGACCACAGAGGAGTGCCAGGC
GGCCCTGCAGTGCCACGGCTGGAGCGTGCAGAGGGCTGCCCAGTATCTGAAGGTGGAGCA
GCTCTTCGGGCTGGGTCTGCGGCCCAGAGGGGAGTGCCACAAAGTGCTGGAGATGTTCGA
CTGGAACCTGGAGCAGGCCGGCTGCCACCTTCTGGGCTCCTGGGGCCCTGCCCACCACAA
GCGCTGAGATGCGTCTGGAGAGCCAGAGGGCCTGCCTGAAGGAATCACCTGAGCCTGTCC
GTCCACCAGGAGTGGGGAGATGCCCCCATCCAGTCCTGGAGGACCCGCTGCTCCTGCTGC
TCCCGGGGATGGAGCAAGGCCAAGGCTGCGGGAGGCTGGGAGCCCTGCCCTGCCCATCCC
TCCTGCACCAGCGCTGTCCCTGCACACTTTGGTTCAGTCCCGGTGCCCCTGCCAAGATGT
GGAAGGGGCCGGGTGAAGACAGGCTTGAGGGCTGCCCCAGCAGGCTCTGGGTATGACCTG
CCTCTGGCCCTGGTCCTGGGCGGGGCCTGTGGGTGGAGTAGTACCCCCAGGCCCTGCCCT
GGGTGACAGACTGGGAGGAAACCAGGCTGGACCTGGGCAGGCGGGATGTGTTGGCCACAG
GGAGAGGCGGACCGGCACCCGGTGGGACCTCCTAGGACTGGGCCTTCTTCCAGGGGGCCC
CTGGCAGCAGCTGGGGTGTCGGGCAGAATGTGACTTGTGGCCTTACCATGGACTTGAATG
GGACTTGGCTGGCCTCAGGATCTTGTGCCTGGAAATAGCCTGAGGTGGCTCAGGAAGCGG
AGAAAGGGTGCCAGACCATTCTCTGGCGGGGACCAGGGCCCAAGGCCCCAGGGCTGGAAG
GAGACCAAGGGGCAGCCGCCCTGGAGGGACATCAGTGCTTCCTCTTCCACCCAATTCCCC
CACGCGGTTCCATGTTTTCCCACCAGCCTGTTGGCGAAGTTGCTGCTCCGGCATTCAGTA
CCTGCTTCTTCCAGAGAAATAAAGTTAGTTTCTATTTTATGTTAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_005781

Insert Size: 4100 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation:	The insert of this clone has been fully sequenced and found to be a perfect match to NM_005781.4 except for 6bp insertion in this clone.
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_005781.4, NP_005772.3
RefSeq Size:	4476 bp
RefSeq ORF:	3117 bp
Locus ID:	10188
UniProt ID:	Q07912
Cytogenetics:	3q29
Domains:	UBA, pkinase, TyrKc, SH3, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
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] Transcript Variant: This variant (1) is the more frequently occurring transcript and it encodes isoform 1.