

Product datasheet for **MC228134**

Tnk2 (NM_001289443) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tnk2 (NM_001289443) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tnk2
Synonyms:	Ack; Ack-1; Ack1; Cdgip; Pyk1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228134 representing NM_001289443
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACCCTCCTGACCTGCTGAGTGTGGAAGTACGACCTCCCGACCCACCCAGCACCTAGGACGGGTGA
 AAAAGCCAACATACGACCCTGTGAGTGAGGACCCAGACCCCTGTCCAGCGACTTCAAGAGGCTTGGCCT
 GAGGAAGCCAGCCCTGCCTCGAGGGCTGTGGCTGGCAAAGCCCTCAGCCCGAGTGCCAGGCACCAAGGCA
 GACCGCAGCAGTGGGGTGGAGTCACTCATCGACTTCGGTGAGGAGCCTGTGGTCCCAACCCCTCGGC
 CCTGTGCACCCTCCTTGGCACAGTTGGCCATGGATGCCTGCTCCTTGTGGACAAGACACCACAGAG
 CCCCACACGGGCACTGCCACGACCTTTACACCCACCCCTGTGGTAGACTGGGACGCGCTCCGCTGCC
 CCGCCCCCTGCCTATGACGACGTGGCCAGGATGAGGATGACTTTGAGGTCTGCTCCATCAACAGCACGC
 TAGTAGGTGCAGGCTCCCTGTGGCCTAGCCAAGGCGAGACCAATTACGCCTTTGTACCTGAGCAGGC
 GCAGATGCCCCCTGCCCTGGAGGATAACCTGTTCTTCCACCCAGGGCGGAGGCAAGCCGCCAGCTCA
 GTGCAGACTGCAGAGATTTCCAGGCACTGCAGCAGGAGTGATGCGGCAGCTACAGGTCCCACTGGCC
 AGCTGACCCCTCCCGACCCAGGAGGTGATGACAAGCCCAAGGTGCCACCCCGGTACCTATTTCCCTCC
 TCGGCCACGCGTCCAGTGTGGAGCTATCTCCAGCTCCCTCGGGTGAGGAAGAGACAAGCCGGTGGCCT
 GGACCTGCCTCGCCCCCGAGTGCCTCCCGGAACTCTGTCTCCTCAAGGTTCAAGGACCCCAAGCC
 CCCTAGTGCCACTGGCAGCTCTCCACTACCGCATCGGCTCTCTAGCTCACCTGGAAAGACCATGCCAC
 CACTCAAAGCTTTGCCTCAGACCCTAAGTATGCCACTCCACAAGTGATCCAGGCTCCTGGCCACGGGCA
 GGCCCCTGATCCTGCCATTGTCCGCGATGGCAGGAAGTGCAGCAGCTCATTACTACCTGCTGCCTG
 AGCGCCCTCCTTACCTGGAACGCTATCAGCGCTTCTTCCGGGAGGCCAGAGCCCGGAAGAGCCGCGCG
 CCTGCCTGTGCCCGCTGTGGCCCCGAGTACTCCAGCCCTGCTGCCCACTGCCACCGTCCAG
 CCTATGCCTCAGGCCGCCAGACCCAAAGGCCAACTTCTCCACCAATAACAGCAACCCAGGGGCACGGC
 CACCATCCCTGAGGGCCACGGCTCGGCTGCCACAGAGGGGCTGCCAGGGGACGGGCAAGAGGCTGCTCG
 GCCAGCAGACAAGGTCCAGATGGTGGAGCAGCTCTTTGGGCTGGGTCTTCGGCCACGGGTGGAGTGCCAC
 AAGGTCTAGAGATGTTGACTGGAACCTAGAGCAAGCCGGCTGTACCTTCTGGGCTCCTGTGGCCCTG
 CTCATCACAACGCTGA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_001289443

Insert Size: 1557 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: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001289443.1](#), [NP_001276372.1](#)

RefSeq Size: 2721 bp

RefSeq ORF: 1557 bp

Locus ID: 51789

UniProt ID: [O54967](#)

Cytogenetics: 16 B3

Gene Summary: Non-receptor tyrosine-protein and serine/threonine-protein kinase that is implicated in cell spreading and migration, cell survival, cell growth and proliferation. Transduces extracellular signals to cytosolic and nuclear effectors. Phosphorylates AKT1, AR, MCF2, WASL and WWOX. Implicated in trafficking and clathrin-mediated endocytosis through binding to epidermal growth factor receptor (EGFR) and clathrin. Binds to both poly- and mono-ubiquitin and regulates ligand-induced degradation of EGFR, thereby contributing to the accumulation of EGFR at the limiting membrane of early endosomes. Downstream effector of CDC42 which mediates CDC42-dependent cell migration via phosphorylation of BCAR1. May be involved both in adult synaptic function and plasticity and in brain development. Activates AKT1 by phosphorylating it on 'Tyr-176'. Phosphorylates AR on 'Tyr-267' and 'Tyr-363' thereby promoting its recruitment to androgen-responsive enhancers (AREs). Phosphorylates WWOX on 'Tyr-287'. Phosphorylates MCF2, thereby enhancing its activity as a guanine nucleotide exchange factor (GEF) toward Rho family proteins. Contributes to the control of AXL receptor levels. Confers metastatic properties on cancer cells and promotes tumor growth by negatively regulating tumor suppressor such as WWOX and positively regulating pro-survival factors such as AKT1 and AR.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) differs in its 5' UTR, lacks part of the 5' coding region, lacks two in-frame exons in the central coding region, and uses a downstream in-frame start codon, compared to variant 1. The encoded isoform (3) is shorter, compared to isoform 1.