

Product datasheet for RN200091

Tacc2 (NM_001004418) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tacc2 (NM_001004418) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Tacc2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN200091 representing NM_001004418 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCAACGAGAACAGCACCTCGGACCACCAGAGGACTTCTTCAGTTCAGAGTCTAAGATCACTGCAGC
CACCCGGGAACAGTCAAACCTCCACAGAAGCAAGGAGACTCACCTGGATCCGGCGCTGCAAGCATCCCTGG
AACCAATGATGTCATCCAGTCACTGCTCCCGAAGACCTGGGACACCCACCTTAGCTGATTCTTCCCGC
TATGGTGTACTGTCAGCTCAGTCTCTACACATCTGACAGTCCAGAGCACCTCCCATCTGCTGCCATG
CAAGTCTTGCTCCTGTGGCCTCAGAACATGCAGCCTTGGCTTCCGCCGCAGCTGGTCTGGAGTAGAAAC
CCCCACTGCCTCTGCCAACCTGGCCAGAACATAAACAGGAGTTCGACTCTGAGGAAGCCTTTGAG
ACCCCGAGTCAACAACCCCTGTCAAAGCTCCACCAGTCTCCCCCTCCACCCCTGAAGTCAACCCCG
AGCCTGAGGTCAACCAACCCAGCCCAAGAACAGGATGCATTTCTGAGCCGGTCTGTTCCCGA
TGGCCCTCGCAGCGAGTCCGTGGAAGGAAGCCCTTCCGCTCTCGCACTCCTCCTGGCGGTGTTGAT
GAAGACAAGCCGATAGCCAGCAGCGGGACATACAACTTAGACTTTGACAGCATCGAGCTGGTGGATAACT
TTCAGAGTTTGGAGCCATGCTCTGCCGACTATAAGGGTCAGGAGTGAAGGTGAGCACGGGAGGAAATC
CACCGAGTCCGTGCCACCCCTCAAGACCAGCTGTCCCGCTCGCTCAGCCTGCAAGCCAGCGACTTCGAC
GGTGTCTCGTGCCCGGAGCCCGAAGCTGGGACCCCTGCCACAGATGCGTGTGGCACAGGATCCAACA
GTGCTTCTAGCACCCCTAAGCGAACTAAAAAACCGCCACCTTCTTAAAAAGAAACAAGTACCAA
GAAACCCACAGAAACCCCCAGTGAAGGAGACCAACAGGAGCCAGGTGAAGAGAGTCCGGTGCCAGT
GAGGAACACTTAGCACCAGAGACAAAGACAGAATCGGCCACACCTGAGGGCACTGGTTGCACCTGTGAG
AAGAGACATCTGAGTCTGCTGCTGTGCCACAGTACCTGTCTCTGACTTTGGAGAGTGTGGAAGA
CGTTAGCCCTCTGGTTTCTGGAGGTGGCAGAGTGCAGAACTCACCCCTGTGGGGAGGAAATCAGTGCCT
CTTACCACAGCCTCTGAGGCAGTGGAGGTGACGCTGCCGACGGTGGGGGCAAGAGGACTTGCCCGCA
AAGGGCTGTCAAGTGGGCTGGAGTTGACTACTCTGAGGACAAGGGAAGTTGGGAGAGTCAAGCAGGAGAA
CGCCCTCCCAACAAAAGATAGGCAAGAGCCAGTTGCCAAAATGCCCTAAGGAGGCCAAAGCTGAAA
AAGACCCAGAGAACTGGACAACACTCCTGCCTCACCTCCAAGGTCCCTGCTGAACCCAGTGACATCC
CTATTGCTAAAGGTACCTACACCTTTGATATAGACAAGTGGGATGACCCCAATTTAACCCTTTTCTCCT
CACCTCGAAAATGCAAGAGTCTCCACACTGTCCCAACAATCGTACAACCTTTGACCCGACGCTGTGAA



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GAGTCCCTTGACCCCTTTAAGGCATCCTCTAAGACCCCCAGTTCACCTTCTAAATCCCCAGCCTCTTTCCG
 AGATCCCAGCCAGCACCATCGAAGCGGACGGGGATGGGTTGAATAAACCCGCCAAGAAGAAGACTCC
 ATTGAAGACTGACACATTTAGGGTGAAGAAGTCTCAAAGCGGTCTCCTCTGTCTGATCCGCCTTCTCAG
 GACCCCACTCCAGCTGCCACACCCGAAGCACCTCCAGTCTCTACCGTGGTCCACGCCACAGATGAGGAAA
 AGTTGGCCGCTACTAGCCAGAAGTGGACATGTATGACAGTGGACTTGGATGCTGACAAACAGGATTTCC
 GCAGCCCTCAGACCTATCTAACTTTGTAATGAGACCAAATCAATTACCCTCGGAGGAGCTGGACTAC
 AGAAACTCCTATGAAATGAATACATGAAAAGCTTGGCTCCTCCTACCTCAGGACGATGACACTCCGA
 AGAAGCAGGCCTTGACCTTATGTTTGACACCCCTCAGGAGAGCCCGTCAAGTCTCCTCCGGTCCGGAT
 GTCGGATTCCCAACTCCATGTTGAGGGTCCGAGTTTGGAGACACCGAAGCCCTGGTGAATGCAACAGCA
 AAGCTCCAGCATCCAGTCCCTAGAGGGCTGGCCTCCAATCAGGAGCCTCTCTTGACGCTGCCGAAAAAT
 CCTCCCAGAAGGAGCTGGAGGCCATGGCCTTGGGCACCCCGCAGAAGCAATTGAAATCACAGCTCCAGA
 GGGTGCCTTTGCCTCTGCAGATGCCCTCCTCAGCAGGCTGGCCATCCTGCTTCTCTGTGGTGCCTT
 GGCTATCTGGAGCCTGATTTAGCAGAAAAGAACCCCCAGTATTTGCCAGAACTTCAGGAGGAATTAG
 AGTTTGTGTCTGCGGATAGAAGCCTTGAAGCTGGCCAGGACAGATCGCCCTGGCTTCTCGCAGCCGCCA
 GGACACCAAGAGGGAAGCCACTACCCACCAGATGTCTCCATCTCCAAAACCTACCTTGACTCCCGCATC
 GGGCCACCGAGGTGGAGAAACCCCCAGGCCTTCTGTTCCAGCAGCCAGACTGGACTCTGCACTCCAAG
 TTGCCAGAGCAGAGGTCATCGCCAAGGAGAGAGAAGTCTCAGAGTGGAGGGATAAATATGAGAAAGCCG
 GCGGGAAGTGGTAGAAATGAGGAAAATCGTGGCTGAATACGAGAAGACCATCGCACAGATGATCGAGGAT
 GAACAGAGAGAGAAGTCCATCTCCACCAAACCGTGCAGCAGCTGGTGTGGAGAAGGAGCAAGCCCTGG
 CTGACCTGAACCTGTGGAGAAGTCTCTGGCTGACCTCTTCCAGGCGATACGAGAAGATGAAGGAGGTGCT
 GGAAGGCTTTGAAAAGATGAGGAGGTGCTGAAGAAGTGTGCACAGGAGTACCTGTCCCGTGAAGAAA
 GAGGAGCAGAGGTACCAGGCCCTGAAGGTGCATGCAGAAGAGAACTGGACAGAGCCAATGCAGAGATTG
 CCCAGGTTGAGGCAAGGCCAGCAGGAGCAGGCGGCTACCAGGCTAGCCTGAGGAAGGAGCAGCTTCG
 AGTGGATGCTCTAGAAAAGAACGCTGGAGCAGAAGAATAAAGAGATAGAAGAACTACCAAGATTTGTGAC
 GAACTGATTGCCAAAATGGGAAAAAGCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001004418

Insert Size:

3390 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).

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_001004418.2](#), [NP_001004418.1](#)

RefSeq Size: 4077 bp

RefSeq ORF: 3390 bp

Locus ID: 309025

Cytogenetics: 1q37

Gene Summary: This gene encodes a member of the transforming, acidic coiled-coil (TACC) family of proteins. Members of this family are centrosomal proteins that interact with microtubules and tubulin. TACC proteins are thought to be involved in centrosome/mitotic spindle dynamics and gene regulation. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2), also called the short form, lacks an in-frame exon in the coding region, compared to variant 1. Variant 2 encodes isoform 2, which is shorter than isoform 1. Sequence Note: This RefSeq record was created from genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were predicted based on rat transcript alignments and on homologous protein alignment with mouse NP_996738.2.