

## Product datasheet for **RR200091**

### Tacc2 (NM\_001004418) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tacc2 (NM\_001004418) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Tacc2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR200091 representing NM\_001004418  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGATCGCC

ATGGGCAACGAGAACAGCACCTCGGACCACCAGGACTTCTTCAGTTCAGAGTCTAAGATCACTGCAGC  
 CACCCGGGAACAGTCAAACCTCCACAGAAGCAAGGAGACTCACCTGGATCCGGCGCTGCAAGCATCCCTGG  
 AACCAATGATGTCATCCAGTCACTGCTCCCGAAGACCTGGGACACCCACCTTAGCTGATTCTTCCCGC  
 TATGGTGTACTGTCAGCTCAGTCTCTACACATCTGACAGTCCAGAGCACCTCCCATCTGCTGCCCATG  
 CAAGTCTTGCTCCTGTGGCCTCAGAACATGCAGCCTTGGCTTCCGCCGACGCTGGTCTGGAGTAGAAAC  
 CCCCCTGCTCCTGCCAACCTGGCCAGAACATAAACAGGAGTTCGACTCTGAGGAAGCCTTTGAG  
 ACCCCCGAGTCAACAACCCCTGTCAAAGCTCCACCAGCTCCTCCCCCTCCACCCCTGAAGTCAACCCGG  
 AGCCTGAGGTCAACCAACCCAGCCCAAGAACAGGATGCATTTCTGAGCCGGTCTGGTTCCTCGA  
 TGGCCCTCGCAGCGAGTCCGTGGAAGGAAGCCCTTCCGCTCCTCGCACTCCTCCTGGCGGTGTTGAT  
 GAAGACAAGCCGATAGCCAGCAGCGGGACATACAACTTAGACTTTGACAGCATCGAGCTGGTGGATAACT  
 TTCAGAGTTTGGAGCCATGCTCTGCCGACTATAAGGGTCAGGAGTGAAGGTGAGCACGGGAGGAAATC  
 CACCGAGTCCGTGCCACCCCTCAAGACCAGCTGTCCCGCTCGCTCAGCCTGCAAGCCAGCGACTTCGAC  
 GGTGCTTCGTGCCCGGACGCCGGAAGCTGGGACCCCTGCCACAGATGCGTGTGGCACAGGATCCAACA  
 GTGCTTCTAGCACCCCTTAAGCGAACTAAAAAACCGCCACCTTCTTAAAAAGAAACAAGTACCAA  
 GAAACCCACAGAAACCCCCAGTGAAGGAGACCAACAGGAGCCAGGTGAAGAGAGTCCGGTGCCAGT  
 GAGGAACACTTAGCACCAGAGACAAAGACAGAATCGGCCACACCTGAGGGCACTGGTTGCACCTGTGAG  
 AAGAGACATCTGGAGTCTGCTGCTGTGCCACAGCTACCTGTCTCTGACTTTGGAGAGTGTGGAAGA  
 CGTTAGCCCTCTGGTTTCTGGAGGTGGCAGAGTGCAGAACTCACCCCTGTGGGGAGGAAATCAGTGCCT  
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 AAGGGCTGTCAAGTGGGCTGGAGTTGACTACTCTGAGGACAAGGGAAGTTGGGAGAGTCAAGCAGGAGAA  
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 AAGACCCAGAGAACTGGACAACACTCCTGCCTCACCTCCAAGGTCCCTGCTGAACCCAGTGACATCC  
 CTATTGCTAAAGGTACCTACACCTTTGATATAGACAAGTGGGATGACCCCAATTTAACCCTTTTCTCCT  
 CACCTCGAAAATGCAAGAGTCTCCACACTGTCCAACAATCGTACAACCTTTGACCCGACGCTGTGAA



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GAGTCCCTTGACCCCTTTAAGGCATCCTCTAAGACCCCCAGTTCACCTTCTAAATCCCCAGCCTCTTTCCG  
 AGATCCCAGCCAGCACCATCGAAGCGGACGGGGATGGGTTGAATAAACCCGCAAGAAGAAGACTCC  
 ATTGAAGACTGACACATTTAGGGTGAAGAAGTCTCAAAGCGGTCTCCTCTGTCTGATCCGCCTTCTCAG  
 GACCCCACTCCAGCTGCCACACCCGAAGCACCTCCAGTCTCTACCGTGGTCCACGCCACAGATGAGGAAA  
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 GAGGAGCAGAGGTACCAGGCCCTGAAGGTGCATGCAGAAGAGAACTGGACAGAGCCAATGCAGAGATTG  
 CCCAGGTTGAGGCAAGGCCAGCAGGAGCAGGCGGCTACCAGGCTAGCCTGAGGAAGGAGCAGCTTCG  
 AGTGGATGCTCTAGAAAGAACGCTGGAGCAGAAGAATAAAGAGATAGAAGAACTACCAAGATTTGTGAC  
 GAACTGATTGCCAAAATGGGAAAAAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR200091 representing NM\_001004418

Red=Cloning site Green=Tags(s)

MGNENSTSDHQRTSSVQSLRSLQPPGNSQTPQKQGDSPGSGAASIPGTNDVIQSAAPEDLGHPLADSSR  
 YGVTVSSVSTHLTVQSTSPSAHASLAPVASEHAALASAAAGPVETPTASCQHLAKNINRSSDSEEAFFE  
 TPSTTPVKAPPAPPPPEVTPPEPEVIEPPAPEEPGCISEPVVVPDGRSEVEGSPFRPSSHSSAVFD  
 EDKPIASSGTYNLDFDSIELVDNFQSLPECSADYKQGECKVSTRRKSTESVPPSKTTLRSLSLQASDFD  
 GASCPSPEAGTLATDACGTGSNSASSTLKRTRPPSLKKKQATKKPTETPPVKETQQEPGEESPVPS  
 EEHLAPETKTESATPEGTGCTLSEETSLESAAVPTATCPLTLESVEDVSPLVSGGGRVQNSPPVGRKSVP  
 LTTASEAVEVTLPDGGGQEDLPAKGLSVRLEFDYSEDKGSWESQENAPPTKKIGKPKVAKMPLRRPKLK  
 KTPEKLDNTPASPPRSPAEPSPDIPIAKGTYTFDIDKWDDPNFNFSSSTSKMQESPTLSQQSYNFDPDACE  
 ESLDPFKASSKTPSSPSKSPASFEIPASTIEADGDGLNPKAKKKKTKPLKTDTRVVKSPKRSPLSDPPSQ  
 DPTPAATPEAPPVSTVVHATDEEKLAVTSQKWTMTVDLDADKQDFPQPSDL SNFVNFKNSPSEELDY  
 RNSYEIEYMEKLGSSLPQDDTPKKQALYLMFDTPQESPVKSPVVRMSDPTPCSGSSFEDTEALVNATA  
 KLQHPVPRGLASNQEPLQLPEKSSQKELEAMALGTPAEAEIITAPEGAFASADALLSRLAHPASLCGAL  
 GYLEPDLAEKNPPVFAQKLQEELEFAVMRIEALKLARQIALASRSRQDTKREATHPPDVSISKTTLYSRI  
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 EQREKSIHQTVQQLVLEKEQALADLNSVEKSLADLFRRYEKMKEVLEGFVKNEEVLKKAQEQEYLSRVKK  
 EEQRYQALKVHAEKLDRAAEIAQVRGKAQQEQAAAYQASLRKEQLRVDALERTLEQKNKEIEELTKICD  
 ELIAKMGKS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

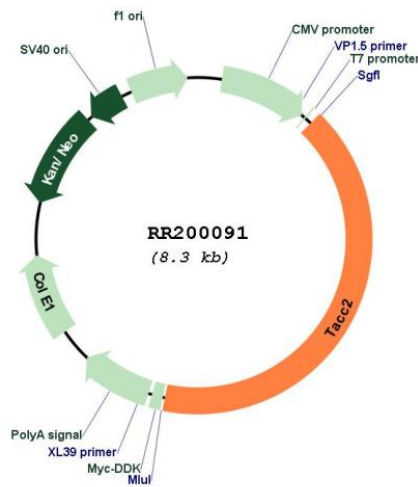
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001004418

ORF Size: 3387 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\_001004418.2, NP\_001004418.1

**RefSeq Size:** 4077 bp

**RefSeq ORF:** 3390 bp

**Locus ID:** 309025

**Cytogenetics:** 1q37

**MW:** 122.2 kDa

**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]