

## Product datasheet for RC212865

### TACC2 (NM\_206860) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TACC2 (NM_206860) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TACC2
Synonyms:	AZU-1; ECTACC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC212865 representing NM_206860 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGAGGGTCGCAGTCCCTGCAGCCAGCCCCAGCCAGCGACCTGAACCTGGAGGCTTCGAGGCAATGA  
GTTCCGATTCTGAAGAGGCATTTGAGACCCCGAGTCAACGACCCTGTCAAAGCTCCGCCAGCTCCACC  
CCCACCACCCCGAAGTCATCCAGAACCCGAGGTCAGCACACAGCCACCCCGGAAGAACCAGGATGT  
GGTTCTGAGACAGTCCCTGTCCCTGATGGCCACGGAGCGACTCGGTGGAAGGAAGTCCCTCCGTCGCC  
CGTCACACTCCTTCTCTGCGCTTCGATGAAGACAAGCCGATAGCCAGCAGTGGGACTTACAATTGGA  
CTTTGACAACATTGAGCTTGTGGATACCTTTAGACCTTGGAGCCTCGTGCCTCAGACGCTAAGAATCAG  
GAGGGCAAAGTGAACACACGGAGGAAGTCCACGGATTCGGTCCCATCTCTAAGTCTACACTGTCCCGGT  
CGCTCAGCCTGCAAGCCAGTGACTTTGATGGTGCTTCTCCTCAGGCAATCCCGAGGCCGTGGCCCTTGC  
CCCAGATGCATATAGCACGGTTCCAGCAGTGCTTCTAGTACCCTTAAGCGAACTAAAAACCGAGGCCG  
CCTTCTTAAAAAAGAAACAGACCACCAAGAAACCCACAGAGACCCCGAGTGAAGGAGACGCAACAGG  
AGCCAGATGAAGAGAGCCTTGTCCCGAGTGGGGAGAATCTAGCATCTGAGACGAAAACGGAATCTGCCAA  
GACGGAAGGTCTAGCCAGCCTTATTGGAGGAGACGCCCTTGGAGCCGCTGTGGGGCCCAAAGCTGCC  
TGCCCTCTGGACTCAGAGAGTGCAGAAGGGTTGTCCCGGCTTCTGGAGGTGGCAGAGTGCAGAACT  
CACCCCTGTCCGGAGGAAAACGCTGCCTTACCACGGCCCGAGGCAGGGGAGGTAACCCCATCGGA  
TAGCGGGGGCAAGAGGACTCTCCAGCCAAAGGCTCTCCGTAAGGCTGGAGTTTACTATTCTGAGGAC  
AAGAGTAGTTGGGACAACCAGCAGGAAAACCCCTCCTACCAAAAAGATAGGCAAAAAGCCAGTTGCCA  
AAATGCCCTGAGGAGGCCAAAGATGAAAAGACACCCGAGAACTTGACAACACTCCTGCCTCACCTCC  
CAGATCCCTGCTGAACCAATGACATCCCATTTGCTAAAGGTAATTACACTTTGATATTGACAAGTGG  
GATGACCCCAATTTAAACCCTTTTCTCCACCTCAAAAATGCAGGAGTCTCCAACTGCCCAACAAT  
CATACAACCTTGACCCAGACACCTGTGATGAGTCCGTTGACCCCTTAAGACATCTCTAAGACCCCGAG  
CTCACCTCTAAATCCCGAGCCTCTTTGAGATCCAGCCAGTGCTATGGAAGCCAATGGAGTGGACGGG



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GATGGGCTAAACAAGCCCGCCAAGAAGAAGAAGACGCCCTAAAGACTGACACATTTAGGGTGAAAAAGT  
 CGCCAAAACGGTCTCCTCTCTCTGATCCACCTCCAGGACCCACCCAGCTGTACACCAGAAACACC  
 ACCAGTGATCTCTGCGGTGGTCCACGCCACAGATGAGGAAAAGCTGGCGGTACCAACCAGAAAGTGGACG  
 TGCATGACAGTGGACCTAGAGGCTGACAAAAGGACTACCCGACGCCCTCGGACCTGTCCACCTTTGTA  
 ACGAGACCAAATTCAGTTCACCCACTGAGGAGTTGATTACAGAACTCCTATGAAATGAATATATGGA  
 GAAAATTTGGCTCCTCCTTACCTCAGGACGACGATGCCCGAAGAAGCAGGCCCTGTACCTTATGTTGAC  
 ACTTCTCAGGAGGCCCTGTCAAGTCATCTCCCGTCCGCATGTCCAGAGTCCCGACGCCGTGTTCAGGGT  
 CAAGTTTTGAAGAGACTGAAGCCCTTGTGAACACTGCTGCGAAAAACAGCATCCTGTCCCACGAGGACT  
 GGCCCTAACCAAGAGTCACACTTGCAGGTGCCAGAGAAATCCTCCAGAAAGGAGCTGGAGGCCATGGGC  
 TTGGGCACCCCTTCAAGAGCGATTGAAATTACAGCTCCCGAGGGCTCCTTTGCCTCTGCTGACGCCCTCC  
 TCAGCAGGCTAGCTACCCCGTCTCTCTGTGGTGCCTTACTATCTGGAGCCCGACTTAGCAGAAAA  
 GAACCCCCACTATTCGCTCAGAACTCCAGAGAGAGGCTGCTCACCAACAGACGTCTCCATCTCCAAA  
 ACAGCCTTGACTCCCGCATCGGACCGCTGAGGTGGAGAAACCTGCAGGCCCTTCTGTTCCAGCAGCCCG  
 ACCTGGACTCTGCCCTCCAGATCGCCAGAGCAGAGATCATAACCAAGGAGAGAGAGGTCTCAGAATGGAA  
 AGATAAATGAAGAAAGCAGGCCGGAAGTGATGGAAATGAGGAAAATAGTGGCCGAGTATGAGAAGACC  
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 TGGAGAAGGAGCAAGCCCTGGCCGACCTGAACTCCGTGGAGAAGTCTCTGGCCGACCTCTTCAGAAGATA  
 TGAGAAGATGAAGGAGGTCTAGAAGGCTTCCGCAAGAATGAAGAGGTGTTGAAGAGATGTGCGCAGGAG  
 TACCTGTCCCGGTGAAGAAGGAGGAGCAGAGGTACCAGGCCCTGAAGGTGCACGCGGAGGAGAACTGG  
 ACAGGGCCAATGCTGAGATTGCTCAGGTTGAGGCAAGGCCCAGCAGGAGCAAGCCGCCACCAGGCCAG  
 CCTGCGGAAGGAGCAGCTGCGAGTGGACGCCCTGGAAAGGACGCTGGAGCAGAAGAATAAAGAAATAGAA  
 GAACTACCAAGATTTGTGACGAACTGATTGCCAAAATGGGAAAAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGAT AAGTTTAA

**Protein Sequence:**

>RC212865 representing NM\_206860  
 Red=Cloning site Green=Tags(s)

MGGSQSLQPAPASDLNLEASEAMSSDSEEFETPESTTPVKAPPAPPPPPPEVIPEPEVSTQPPPEEPGC  
 GSETVPVPDGPSPDSVEGSPFRPPSHSFSAVFDEDKPIASSGTYNLDNFDNIELVDTFQTLPRASDAKNQ  
 EGKVNTRRKSTDSVPIISKSTLSRSLSLQASDFGASSSGNPEAVALAPDAYSTGSSSASSTLKRTRKPRP  
 PSLKKKQTTKKPTETPPVKETQQEPDEESLVPGENLASETKTESAKTEGSPALLEETPLEPAVGPKAA  
 CPLDSESAEGVPPASGGGRVQNSPPVGRKTLPLTTAPEAGEVTPSDSGGQEDSPAKGLSVRLEFDYSED  
 KSSWDNQENPPPTKKIGKPKVAKMPLRRPKMKKTPEKLDNTPASPPRSPAEPNDIPIAKGTYTFDIDKW  
 DDPNPNPFSSTSKMQESPCLPQQSYNFDPDTCDESVDPFKTSSKTPSSPSKSPASFEIPASAMEANGVDG  
 DGLNPKAKKKKTLKTDTRVKKSPKRSPLSDPPSQDPTPAATPETPPVI SAVVHATDEEKLAVTNQKWT  
 CMTVDLEADKQDYPQPSDLSTFVNETKFSPTTEELDYRNSYEIEYMEKIGSSLPQDDAPKKQALYLMFD  
 TSQESPVKSSPVRMSESPTPCSGSSFEETEALVNTAAKNQHPVPRGLAPNQESHQVPEKSSQKELEAMG  
 LGTPSEAITETAPEGSFASADALLSRLAHPVSLCGALDYEPDLAEKNPPLFAQKLQREAAHPTDVISK  
 TALYSRIGTAVEVEKPAQLLFQQPDLDSALQIARAEIITKEREVSEWKDKYEE SRREVMEMRKIVAEYEKT  
 IAQMIEDEQREKSVSHQTVQQLVLEKEQALADLNSVEKSLADLFRRYEKMKEVLEGFKNKEEVLKRCQAE  
 YLSRVKKEEQRYQALKVHAEKLDLANAEIAQVRGKAQQEQAAHQASLRKEQLRVDALERTLEQKNKEIE  
 ELTKICDELIKMGKS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_206860

**ORF Size:** 2988 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.

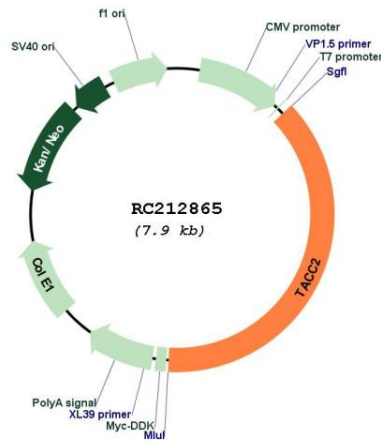
**RefSeq:** [NM\\_206860.3](#)

**RefSeq Size:** 3825 bp

RefSeq ORF: 2991 bp  
 Locus ID: 10579  
 UniProt ID: [O95359](#)  
 Cytogenetics: 10q26.13  
 MW: 108.5 kDa

**Gene Summary:** Transforming acidic coiled-coil proteins are a conserved family of centrosome- and microtubule-interacting proteins that are implicated in cancer. This gene encodes a protein that concentrates at centrosomes throughout the cell cycle. This gene lies within a chromosomal region associated with tumorigenesis. Expression of this gene is induced by erythropoietin and is thought to affect the progression of breast tumors. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RC212865