

## Product datasheet for **SC115771**

### TACC2 (NM\_006997) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TACC2 (NM_006997) Human Untagged Clone
Tag:	Tag Free
Symbol:	TACC2
Synonyms:	AZU-1; ECTACC
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_006997, the custom clone sequence may differ by one or more nucleotides

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ATGGGAGGGTCGCAGTCCCTGCAGCCAGCCCCAGCCAGCGACCTGAACCTGGAGGCTCCGAGGCAATGA
GTTCCGATTCTGAAGAGGCATTTGAGACCCCGGAGTCAACGACCCCTGTCAAAGCTCCGCCAGCTCCACC
CCCACCACCCCGAAGTCATCCCAAGAACCCGAGGTGAGCACACAGCCACCCCGGAAGAACCAGGATGT
GGTTCTGAGACAGTCCCTGTCCCTGATGGCCACGGAGCGACTCGGTGGAAGGAAGTCCCTCCGTCCCC
CGTCACACTCCTTCTCTGCCGTCTTCGATGAAGACAAGCCGATAGCCAGCAGTGGGACTTACAACCTGGA
CTTTGACAACATTGAGCTTGTGGATACCTTTCAGACCTTGGAGCCTCGTGCCTCAGACGTAAGAATCAG
GAGGGCAAAGTGAACACACGGAGGAAGTCCACGGATTCCGTCCCCATCTCTAAGTCTACACTGTCCCGGT
CGCTCAGCCTGCAAGCCAGTACTTTGATGGTCTTCTTCTCAGGCAATCCCGAGGCCGTGGCCCTTGC
CCCAGATGCATATAGCACGGTTCAGCAGTGTCTTAGTACCCTTAAGCGAACTAAAAACCGAGGCCG
CCTTCTTAAAAAAGAAACAGACCACCAAGAAACCCACAGAGACCCCCAGTGAAGGAGACGCAACAGG
AGCCAGATGAAGAGAGCCTTGTCCCAGTGGGGAGAATCTAGCATCTGAGACGAAAACGGAATCTGCCAA
GACGGAAGGTCTAGCCAGCCTTATTGGAGGAGACGCCCTTGAAGCCGCTGTGGGGCCAAAGCTGCC
TGCCCTCTGGACTCAGAGAGTGCAGAAGGGTGTCCCCCGGCTTCTGGAGGTGGCAGAGTGCAGAACT
CACCCCTGTCCGGAGGAAAACGCTGCCTTACCACGGCCCCGAGGCAGGGGAGGTAACCCATCGGA
TAGCGGGGGCAAGAGGACTCTCCAGCCAAAGGCTCTCCGTAAGGCTGGAGTTTACTATTCTGAGGAC
AAGAGTAGTTGGGACAACCAGCAGGAAAACCCCTCCTACAAAAAGATAGGCAAAAAGCCAGTTGCCA
AAATGCCCTGAGGAGGCCAAAGATGAAAAGACACCCGAGAACTTGACAACACTCCTGCCTCACCTCC
CAGATCCCCTGCTGAACCAATGACATCCCCATTGCTAAAGTACTTACACCTTTGATATTGACAAGTGG
GATGACCCCAATTTTAAACCTTTTCTCCACCTCAAAAATGCAGGAGTCTCCAAACTGCCCAACAAT
CATACAACCTTTGACCCAGACACCTGTGATGAGTCCGTTGACCCCTTAAAGACATCCTCTAAGACCCCAAG
CTCACCTTCTAAATCCCCAGCCTCCTTTGAGATCCAGCCAGTGTATGGAAGCCAAATGGAGTGGACGGG
GATGGGCTAAACAAGCCCGCAAGAAGAAGACGCCCTAAAGACTGACACATTTAGGGTAAAAAGT
CGCCAAAACGGTCTCCTCTCTGATCCACCTCCAGGACCCACCCAGCTGTACACCAGAAACACC
ACCAGTATCTCTGCGGTGGTCCACGCCACAGATGAGGAAAAGCTGGCGGTACCAACCAGAAAGTGGACG
TGCATGACAGTGGACCTAGAGGCTGACAAAACAGGACTACCCGAGCCCTCGGACCTGTCCACCTTTGTA
ACGAGACCAAATTCAGTTCACCCACTGAGGAGTTGGATTACAGAACTCCTATGAAATGAAATATGGA
GAAAATTGGCTCCTCCTACCTCAGGACGACGATGCCCGAAGAAGCAGGCTTGTACCTTATGTTTGC
ACTTCTCAGGAGAGCCCTGTCAAGTCACTCCCGTCCGCATGTCAGAGTCCCGACGCCGTTCAGGGT
CAAGTTTTGAAGAGACTGAAGCCCTTGTGAACACTGCTGCGAAAAACAGCATCCTGTCCCACGAGGACT
GGCCCTAACCAAGAGTCACACTTGAGGTTGCCAGAGAAATCCTCCAGAAAGGAGCTGGAGGCCATGGGC
TTGGGCACCCCTCAGAAGCGATTGAAATTACAGTCCCGAGGGCTCCTTTGCCTCTGCTGACGCCCTCC
TCAGCAGGCTAGCTACCCCGTCTCTCTGTGGTGCCTTGACTATCTGGAGCCCGACTTAGCAGAAAA
GAACCCCCACTATTGCTCAGAACTCCAGGAGGAGTTAGAGTTTGCCATCATGCGGATAGAAGCCCTG
AAGCTGGCCAGGCAGATTGCTTTGGCTTCCCGCAGCCACCAGGATGCCAAGAGAGAGGCTGCTCACCCAA
CAGACGCTCCATCTCCAAAACAGCCTTGTACTCCCGCATCGGGACCGCTGAGGTGGAGAAAACCTGCAGG
CCTTCTGTTCCAGCAGCCCGACCTGGACTCTGCCCTCCAGATCGCCAGAGCAGAGATCATAACCAAGGAG
AGAGAGGTCTCAGAATGGAAGATAAATATGAAGAAAGCAGGCGGAAAGTATGGAATGAGGAAAATAG
TGGCCGAGTATGAGAAGACCATCGCTCAGATGATAGAGGACGAACAGAGAGAGAAGTCACTCCCACCA
GACGGTGCAGCAGCTGGTTCTGGAGAAGGAGCAAGCCCTGGCCGACCTGAACTCCGTGGAGAAGTCTCTG
GCCGACCTCTTCAAGATATGAGAAGATGAAGGAGTCTAGAAGGCTCCGCAAGAATGAAGAGGTGT
TGAAGAGATGTGCGCAGGAGTACCTGTCCCGGTGAAGAAGGAGGAGCAGAGGTACCAGGCCCTGAAGGT
GCACGCGGAGGAGAACTGGACAGGGCCAATGCTGAGATTGCTCAGGTTCCAGGCAAGGCCACGAGGAG
CAAGCCGCCACCAGGCCAGCCTGCGGAAGGAGCAGCTGCGAGTGGACGCCCTGGAAGGAGCCTGGAGC
AGAAGAATAAAGAAATAGAAGAACTCACCAAGATTTGTGACGAACTGATTGCCAAAATGGGAAAAGCTA
A
    
```

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_006997 unedited  
 GAATTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGGTTTAAAGAGAAGAGC  
 CTTTCGGACCACACCGGCGCTCACGCTCATACCCGCACGCCCCGGGCAGAGCCGCGCACG  
 CCGGCCACACTCGGGCGCGCCGGCCACACTCGCGCGCACACATACGCGGGCTCGCCC  
 CCCGGCCCCGGCTCGGGCCGCGAGTCGAGCTCCCTGCCGCGCTCCCGCCGCCACGGA  
 TGCCCCGAGCTGCTCCCCTCTGCAGTGCAGCAACCCCGCCGGCCGGCTCGCCCCGG  
 TCCCCGGCTGAGGAATCGCGCCAGGACGCTGGCCCCGCTCGCGGCTAGCTTGACGCCA  
 GGGCACAGCGAGGATGGGAGGGTCGAGTCCCTGCAGCCAGCCCCAGCCAGCGACCTGAA  
 CCTGGAGGCTTCCGAGGCAATGAGTTCCGATTCTGAAGAGGCATTTGAGACCCCGGGTTC  
 AACGACCCTGTCAAAGCTCCGCCAGCTCCACCCACCACCCCGAAGTCATCCAGA  
 ACCCGAGGTCAGCACACAGCCACCCCGGAAGAACCAGGATGTGGTTCTGAGACAGTCCC  
 TGTCCCTGATGGCCACGGAGCGACTCGGTGGAAGGAAGTCCCTTCCGTCGCCCGTCACA  
 CTCCTTCTGCGCTCTCGATGAAGACAAGCCGATAGCCAGCAGTGGGACTTACAATT  
 GGACTTTGACACATTGAGCTTGTGGATACCTTTCAGACCTTGGAGCCTCGTGCTCAGAC  
 GCTAAGAATCAGGAGGGCANAGTGACACACGGAGGNAAGTCCACGGATTNCGTCCCATC  
 TCTAAGTCTACACTGTC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_006997 unedited  
 ATCGCCGACGTGTATAGGGACGATGGTCAACTTGCCAGGGCACGGGAAGAGCACTGGG  
 GGNAGGGGCTCACAGGGCATGGCCACGCCGGTATCTGTTTCAGGAAAACAGCTATGACCG  
 CGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTCAAGATCCAAAAAAAATTTT  
 ATTTACAATAGAAGAATTTTATTGTGAAACATGCATTTCTGTTTTTTTAAAAACAATC  
 AGCAAATGCAGATCAAGTTTACTCTCCTAAGGCAAGAGTCCCTATGCACGCTGTACATG  
 TTCATATTAATCCAAAAGCTGCTCACCTGGAACTTGTGTACAAGGGCAAGGCAAG  
 GTCAGCAATGTGTCTTTATTAGAGAATCAGACAATCTCCTGATACAGGAACTCTGAGG  
 TCAACTTGCTATGAATTAATACTAGGAAAATGCAAACCAATAGCAAGAAATCTGTAGTC  
 TCCTTAGTACTGCATACAATCAAATCAATTTTATTAGAAAGGAAATACAGTAGTGCATA  
 CGAAAAAGTGAAAACAGAACCTGTCCATGGAAGTGGAGGAACAGCAGTGTCCGACGGTC  
 ATATTGCACGCAACAGTTAAGTCCAAAACATTCGGTTCAAAGTTAGCTTTTCCCCATTTT  
 GGCAATCAGTTTCGTCACAAATCTTGGGGAGTTCTTCTATTTCCTTATTCTTCAGTCCAG  
 CGTCCTTGCCAGGGCGTCCACTCACACCGGCTCCTTCCACAGGCAGACCCGGAGGGCGG  
 CTCTGCGCCCGGGGGACCGTGGCGCAGAACGATAGAGATCAGCCAGTGGGCGGCTGA  
 GATTGGCAACGGCAGGGTCACATCTCAGAACGAGGCGAACCAAGAGACGGGTTACAGGAC  
 AGGAATGCGAGGAT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_006997

**Insert Size:**

4000 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\\_006997.2](#), [NP\\_008928.1](#)

**RefSeq Size:** 3916 bp

**RefSeq ORF:** 3081 bp

**Locus ID:** 10579

**UniProt ID:** [O95359](#)

**Cytogenetics:** 10q26.13

**Domains:** TACC

**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]

Transcript Variant: This variant (4) uses a different structure for its 5' UTR and 5' coding region compared to variant 1. The resulting protein (isoform d) has a shorter and distinct N-terminus, compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.