

Product datasheet for **SC315382**

TTC3 (NM_003316) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TTC3 (NM_003316) Human Untagged Clone
Tag:	Tag Free
Symbol:	TTC3
Synonyms:	DCRR1; RNF105; TPRDIII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC315382 representing NM_003316. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGACAATTTTCTGCTGAGGGAGATTTCACTGTGGCGGATTATGCCTTGTAGAAGATTGCCCTCACGTG
GATGATTGTGCTTTGCTGCTGAATTTATGAGCAATGATTATGTTGCTGTGACTCAGCTTTACTGTGAT
GGGGTGGGTGTGCAATATAAAGATTATATCCAAAGTGAGAGGAATTTGGAATTTGACATCTGCAGTATA
TGGTGTAGTAAACCAATTTCTGCTGCAAGATTATTGCGATGCCATTAATAAACATCTTCTGGCCA
CTTCTGTTTCAACATCAAAACAGTTCGGTAATATCAGGATGCATCCCTGTGTGGACGCCAACAAATCA
CGTGCTTCTGAGATAAATTTGAAGAACTACAACATCTTGAGTTGATGGAAGATATTGTGGATTTGGCA
AAGAAAGTTGCTAATGATTCAATTCCTTATTGGAGGCTTATTGAGAATTGGTTGTAATAAGAAAATAAA
ATCTTGGAATGGAAGAAGCTCTGAATTTGGATAAAAATATGCAGGCGATGTAACAATTTCTAACTAAATTA
GGATCAATTGACAATTGTTGGCCTATGTTAAGTATTTCTTTACTGAATACAAGTACCACATAACTAAA
ATTGTAATGGAAGACTGCAATTTGCTTGAAGAACTTAAACTCAAAGTTGTATGGATTGTATAGAGGAA
GGAGAATAATGAAAATGAAAGGAAATGAAGAGTTTTCCAAGAAAGATTTGATATAGCTATTATCTAT
TACACCAGAGCCATTGAATATAGACCTGAAAACACCTTCTTTATGGTAACCGAGCTCTTTGTTTTCTT
CGTACTGGACAGTTTAGAAATGCACTCGGTGATGGAAGAGAGCCACTATTCTGAAGAACACTTGGCCA
AAGGGTCATTATCGTTATTGTGATGCTCTTTCTATGCTGGGGAATATGACTGGGCCCTGCAAGCAAAAC
ATAAAAGCTCAAAAACCTGTAAAAATGACCCTGAGGGAATCAAGGATCTAATTCAGCAGCATGTAAG
TTAAAAAACAATAAGAGACCTACAAGTTCGAACAGCAATAAGGATCCAATTAAGCCTTTTATGAA
AACAGGGCTACACACCTAGGAGTTTATCAGCACCTATTTTACTACTTCACTTAACTTTGTGGAGAAG
GAAAGAGATTTAGAAAAATTAATCACGAAATGGCCAACGGTGGTAATCAGAATCTAAAGGTGGCGGAT
GAGGCGTTGAAGGTAGATGATTGTGACTGTCATCCTGAATTTTACCACCATCAAGTCAGCCTCAAAA
CATAAAGGAAAACAAAACTCGAAACAATGAATCAGAAAAGTTCAGTTCTAGTTACCATTGACTTTA
CCAGCAGATTTGAAGAATCTTGGAGAAACAGTTTTCTAAATCTCCAGAGCTGCACACCAGGATTTT
GCTAATATAATGAAAATGCTGAGAAGCTTAATTCAGATGGCTATATGGCCTTATTGGAGCAGCGTTGC
```



[View online >](#)

CGCAGCGCTGCACAGGCCTTTACAGAGTTGCTGAACGGTTTAGATCCTCAAAAAATAAAGCAATTGAAC
 CTGGCCATGATTAACATGTTTTGGTCGTCTATGGACTTGCCATTTCTCTCCTTGGAAATAGGACAGCCT
 GAGGAATTATCTGAAGCCGAAAACAGTTTAAAGAGGATTATTGAACACTACCCAGTGAGGGCCTTGAT
 TGCTTGGCCTACTGTGGAATTGGAAAAGTATATTTGAAAAAACAGATTTCTAGAAGCTCTCAATCAC
 TTTGAGAAAGCAAGAACCTTGATTTATCGTCTTCTGGAGTGTTAACTTGGCCCACGAGTAAATGTGATT
 ATTTGAAGAGTCTCAGCCACAAAAATAAAGATGCTGTTAGAGAAATTTGTTGAAGAATGCAAGTTCCT
 CCAGTGCCAGATGCCATTTGTTGCTATCAGAAGTGCCATGGATATTCTAAGATCCAGATATACATAACT
 GATCCAGACTTTAAGGGTTTTATACGCATCAGCTGTTGCCAGTACTGTAATAAGAAATTTTACATGAAT
 TGCTGGAAGAAGTAAAAACTACAACTTTAATGATAAAATTGACAAGGATTTTCTACAAGGAATATGT
 CTTACCCCTGACTGTGAAGGTGTCATTTCTAAGATTATCATCTTCAGCAGTGGTGGTGAAGTTAAATGT
 GAATTTGAACACAAGGTCATAAAAGAAAAGTTCTCCAAGACCTATTCTGAAACAGAAATGTTCTAGC
 CTAGAGAACTAAGACTGAAAGAAGACAAAAATTTGAAGAGAAAGATCCAAAAAAGAAGCAAAAAAG
 TTAGCACAAAGAAAGATGGAGGAGGACTTAAGAGAAAGTAAATCCACCAAAAAATGAAGAGCAGAAAGAA
 ACTGTAGACAATGTTGAGCGTTGTCAGTTCCTTGATGACAGAATTCTACAGTGTATAAAGCAGTATGCT
 GACAAGATTTAAATCCGGCATAACAGAAATACAGCCATGCTTCTCAAAGAATTGCTTTCTGGAAAGTTTTG
 AGCACAGAAGACTATACAACTGTTTTCTAGCAGAAATTTCTAAATGAAGCAGTGGACTATGTTATT
 CGCCACTTGATTCAAGAAAAATAACAGAGTAAAGACAAGAATATTTCTGCATGTTTTGAGTGAAGTAAA
 GAAGTGGAGCCCAAAATTAGCCGCTGGATCCAAAACTTAATAGCTTTGGCTTAGATGCCACAGGAAGT
 TTCTTTCTCGTTATGGAGCATCTTAAACTGCTTGATTTTAGTATCATGACTTTCCTCTGGAATGAG
 AAATATGGTCACAACTAGACTCTATAGAAGGAAAGCAACTTGATTATTTCTCTGAGCCAGCATATTG
 AAGGAAGCCCGTTGTTTAAATGGCTGCTAGAAGAACACAGAGACAAGTCCCAGCATTGCATAGTGCT
 TTAGATGAATCTTTGATATAATGGACAGCCGCTGACTGTGTTAAGGAAACAAGATAGTGGTGAAGCA
 CCGTTTTAGTTCAACCAAGGTGAAAAACAAAAGCAAGAAAAAGAAGCCAAAGGATTCAAAGCCTATGTTA
 GTTGGGCTGGAACAACCTCAGTAACTTCAAATAATGAGATCATCACTTCAAGTGAAGACCATAGCAAT
 CGAAATTCAGATTCTGCAGGCCATTTGCAGTGCCTGACCATCTTCGGCAAGATGTAGAAGAATTCGAA
 GCTCTCTATGACCAACACAGTAACGAATATGTTGTCCGCAATAAGAAGCTATGGGACATGAACCCAAAA
 CAAAAATGTTCAACTCTATATGATTACTTCTCAGTTTTTGGAGGAACATGGTCCCTTGGACATGAGT
 AACAAAGATGTTCTCTGCAGAAATAGAGTTTTTCCAGAAGAACTCGACAGATACTAGAAAAAGCAGGA
 GGTAAAAACCTTTCTCTGGGATGCCCTCGTTTTGTTGATTGACAAGTATTGCACTGAAGAAG
 GTTGCATCAGGGCTCAAGAAAAAAGGAAGAAGAAAAACATTAACAAAAAGTAGAAGAAATTTCAAAA
 GCAGGGGAGTATGTACGAGTTAACTACAAGTGAATCCAGCTGCTAGGGAATTTAAACCAGATGTAAG
 TCTAAACCAGTGTGAGTTTCTCAGCACCAGCTTTTGAAAAATGTGAAACCCAAACCTGTGTCTGCA
 AATTCTCCAAGCCAGCTTGGAAGATGTGAAGGCCAAACAGTATCCGACAATTTCTTAGACAAGTT
 TCTGAGGATGGGCAACCCAAAGGGTCTCTTCTAATTCTCTAAACCAGGCTCTGAGGATGCAAATTAC
 AAGCGAGTCTCCTGTAATTTCCCAACCCGGTCTTGGAGGATGTGAAACCAACTATTGGGCTCAATCC
 CATTTGGTCACAGGATACTGTACGTATCTTCTTCCAGAGATTTGATATACCCAGACACCCGACGCA
 TACATAAACGTGTTACCAGGTTTGCACAGTACACCAGCATATATACACCCTTGGCCAGCCTTTCTCCT
 GAATATCAGCTACCAAGATCAGTACCAGTGGTCCGCTTTTTGTAGCCAATGACAGAGCAGATAAAAAAT
 GCTGCTGCCTATTTTGGGGTCACTATTTGAATGCTGAGAATGTTGCTGGTCCAGATGCTCTGAA
 ACACAGATCCTTGGGGCTCTTTGGGAATATCTGTAAAGTCACTGACAGCAGGATGCTCATACA
 GTCTGAGTGAGTCTAACAGAAATGATGAGCACTGTGGAATTTCTAACACAAATGTGAAGTAATCCA
 GAAAGCACCAGTGCAGTAACAAACATTTCCACAGTGCAGATGGTGGCATAACAGGATCTTGGAAACATA
 ATACACCAAGAAGTCAATACTGAGCCATAAATCTTTTGGGAACGACAAGGGGAAATTTACGGATT
 GAAAAGGAGCACCAAGTATTACAAGACCAACTTCAAGAAGTGTGAAAAATATGAGCAGATAAACTT
 AAGGGCTTAGAAGAGACCAGGGACCTGGAAGAGAAGTTGAAAAGGCACTTAGAAGAAAACAAGATCTCA
 AAGACGGAATTAGATTGGTTCCTTCAAGATTTGAAAAGAGAAATTAATAAATGGCAACAGGAAAAAAA
 GAAATCCAAGAAAGACTAAAATCACTGAAGAAGAAAAATTAATAAGGTTTTCAAATGCCAGTGAATGTAT
 ACCCAGAAAAATGATGGAAGGAAAAGGAACATGAATTACATCTGGATCAGTCCCTTGAATCAGCAAC
 ACATTTACAAATGAGAAAATGAAAAATAGAAGATATATAAGAAAAGGGAAGAGGATTATGAAGAGAGT
 CATCAGAGAGCTGTGGCTGCAGAGGATCCGTAATTTGAAAAGTGGAAAGGAGAGTGAAGTGTATAAGCTA
 CAGATCATGGAGTCACAAGCAGAAGCCTTTCTGAAGAAGCTGGGGCTGATTAGCCGTGATCCTGCAGCA
 TATCCTGACATGGAGTCTGATATACGTTTCAAGGAAATGTTTTCTTCTAATGTTACAAAAGAAATTTGAG

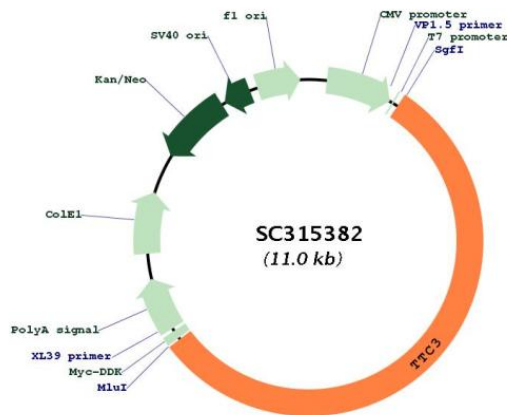
```

AAAGCAAAGTCTCAGTTTGAAGAACAAATTAAGGCAATTA AAAATGGTTCTCGGCTCAGTGAACCTTCT
AAAGTGCAGATTTCTGAGCTTTCATTTCTGCCTGTAACACGGTTCATCCCGAGTTACTCCCTGAGTCT
TCAGGGCAGCAGTGGCCAAGGGCTTGTGACTTCTGCAAGCGACGTGACTGGAAACCACGCAGCACTCAC
AGGGATCTAGTGTGTTCTCTGCTGGTGATTCCCAGGGGAGGCTCCTTCTGCGCTGTTGCCAGGGCCA
CCCCCTGGTCAGCCTGAAGCCACTCAGCTGACAGGGCCAAAACGGGTGGCCAGGCAGCTCTGTGAGAA
CGAAGCCCTGTGGCTGATCGGAAGCAGCCTGTTCTCCAGGACGTGCTGCGCGTTCAAGCCAGTCTCCA
AAAAAGCCGTTCAATAGTATTATTGAGCACCTGTCAGTGGTATTCCCATGTTACAACAGCACTGAGCTT
GCTGGTTTTTATAAAAAAGTGCGAAGCAAAAACAAGAAGCACTCTCAGGATTGAGTATTGATGAAATT
GTCCAAAGAGTGACAGAACACATTCTAGATGAACAGAAAAAGAAAAGCCAAACCAGGAAAGGACAAG
AGGACTTATGAGCCAGCTCTGCCACCCCGTGACCAGGTCTCCAGGGCTCACCTCGGTGGTTGTT
GCACCATCACCCAAAACCAAGGGGCAGAAAGCAGAAAGTGTCCCTGTGAGGATTGCACTGGTGCAAGT
TCCTGTGAAATATGCCACGAGGTGTTCAAATCAAAAAACGTGCGTGTGCTCAAATGTGGGCACAAGTAT
CACAAAGGGTGCTTTAAGCAGTGGCTTAAGGGCAGAGCGCTTGCCCGGCTGCCAGGGTCTGTATCTC
CTGACAGAAGAGTCACCTTCTGGAAGAGGCTGGCCAGTCAGAATCAGGAGCTGCCTTCTGCTCTTCT
AGGTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
    
```

Restriction Sites:

SgfI-MluI

Plasmid Map:



ACCN:

NM_003316

Insert Size:

6078 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:

This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<ol style="list-style-type: none">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_003316.3
RefSeq Size:	9021 bp
RefSeq ORF:	6078 bp
Locus ID:	7267
UniProt ID:	P53804
Cytogenetics:	21q22.13
Domains:	TPR, RING
Protein Families:	Druggable Genome
MW:	229.9 kDa
Gene Summary:	<p>E3 ubiquitin-protein ligase that mediates the ubiquitination and subsequent degradation of phosphorylated Akt (AKT1, AKT2 and AKT3) in the nucleus. Acts as a terminal regulator of Akt signaling after activation; its phosphorylation by Akt, which is a prerequisite for ubiquitin ligase activity, suggests the existence of a regulation mechanism required to control Akt levels after activation. Catalyzes the formation of 'Lys-48'-polyubiquitin chains. May play a role in neuronal differentiation inhibition via its interaction with CIT.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) differs in the 5' UTR and has multiple coding region differences compared to variant 3. These differences cause translation initiation at a downstream AUG and result in an isoform (1) with a shorter N-terminus compared to isoform 3. Variants 1, 2, and 7 all encode the same isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>