

Product datasheet for SC300329

TTC3 (NM_001001894) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | TTC3 (NM_001001894) 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: | >SC300329 representing NM_001001894 Red=Cloning site Blue=ORF |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACAATTTTGCTGAGGGAGATTTCACTGTGGCGGATTATGCCTTGTTAGAAGATTGCCCTCACGTGG
ATGATTGTGCTTTGCTGCTGAATTTATGAGCAATGATTATGTTTCGTGTGACTCAGCTTTACTGTGATGG
GGTGGGTGTGCAATATAAAGATTATATCCAAAGTGAGAGGAATTTGGAATTTGACATCTGCAGTATATGG
TGTAAGTAAACCAATTTCTGTCTGCAAGATTATGCGATGCCATTAATAAACATCTTCTGGCCACTTC
TGTTTCAACATCAAACAGTTCCGTAATATCACGATTGCATCCCTGTGTGGACGCCAACAAATTCAGTGC
TTCTGAGATAAATTTGAAGAACTACAACATCTTGAGTTGATGGAAGATATTGTGGATTTGGCAAAGAAA
GTTGCTAATGATTCATTCCTTATTGGAGGCTTATTGAGAATTGGTTGTAATAAGAAAATAAATCTTGG
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AGAAGCTTAATTC AAGATGGCTATATGGCCTTATTGGAGCAGCGTTGCCGACGCGTGCACAGGCCTTTA
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CAAAGTCTCAGTTTGAAGAACAAATTAAGGCAATTAATAATGGTTCTCGGCTCAGTGAACCTTCTAAAGT
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 TCAGCCTGAAGCCACTCAGCTGACAGGGCCAAAACGGGCTGGCCAGGCAGCTCTGTCAGAACGAAGCCCT
 GTGGCTGATCGGAAGCAGCCTGTTCTCCAGGACGTGCTGCGCTTCAAGCCAGTCTCAAAAAAGCCGT
 TCAATAGTATTATTGAGCACCTGTCAGTGGTATTCCCATGTTACAACAGCACTGAGCTTGCTGGTTTTAT
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 AACCAAGGGGCAGAAAGCAGAAGATGTCCTGTGAGGATTGCACTGGGTGCAAGTTCTGTGAAATATGC
 CACGAGGTGTTCAAATCAAAAAACGTGCGTGTGCTCAAATGTGGGCACAAGTATCACAAGGGTGTCTTA
 AGCAGTGGCTTAAAGGGCAGAGCGCTTGCCCGCCTGCCAGGGTCTGATCTCTGACAGAAGAGTCACC
 TTCTGGAAGAGGCTGGCCAGTCAGAATCAGGAGCTGCCTTCTGCTCTTCTAGGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Please inquire

ACCN: NM_001001894

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 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:

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_001001894.1](#), [NP_001001894.1](#)

RefSeq Size: 7730 bp

RefSeq ORF: 6078 bp

Locus ID: 7267

UniProt ID: [P53804](#)

Cytogenetics: 21q22.13

Protein Families: Druggable Genome

Gene Summary: 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] Transcript Variant: This variant (2), as well as variants 1 and 7, encodes 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.