

Product datasheet for **RG221541**

TTC3 (NM_003316) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TTC3 (NM_003316) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TTC3
Synonyms:	DCRR1; RNF105; TPRDIII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221541 representing NM_003316 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACAATTTTGCTGAGGGAGATTTCACTGTGGCGGATTATGCCTTGTTAGAAGATTGCCCTCACGTGG
ATGATTGTGCTTTGCTGCTGAATTTATGAGCAATGATTATGTTTCGTGTGACTCAGCTTTACTGTGATGG
GGTGGGTGTGCAATATAAAGATTATATCCAAAGTGAGAGGAATTTGGAATTTGACATCTGCAGTATATGG
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TGTTTCAACATCAAACAGTTCGTAATATCACGATTGCATCCCTGTGTGGACGCCAACAATTCAGTGC
TTCTGAGATAAATTTGAAGAACTACAACATCTTGAGTTGATGGAAGATATTGTGGATTTGGCAAAGAAA
GTTGCTAATGATTCATTCCTTATTGGAGGCTTATTGAGAATTGGTTGTAATAAGAAAATAAATCTTGG
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TTTAGAAATGCACTCGGTGATGGAAAGAGAGCCACTATTCTGAAGAACACTTGGCCAAAGGGTCATTATC
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AGAAGCTTAATTCAAGATGGCTATATGGCCTTATTGGAGCAGCGTTGCCGACGCGTGCACAGGCCCTTTA
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CACGAGGTGTTCAAATCAAAAAACGTGCGTGTCTCAAATGTGGGCACAAGTATCACAAGGGTGTCTTA
AGCAGTGGCTTAAAGGGCAGAGCGCTTGCCCGGCTGCCAGGTCGTGATCTCTGACAGAAGAGTCACC
TTCTGAAAGAGGCTGGCCAGTCAGAATCAGGAGCTGCCTTCTGCTCTTCTAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG221541 representing NM_003316
Red=Cloning site Green=Tags(s)

MDNFAEGDFTVADYALLEDCPHVDDCVFAAEFMSNDYVRVTQLYCDGVGVQYKDYIQSERNLEFDICSIW
CSKPI SVLQDYDAIKINIFWPLLFQHQNSSVISRLHPCVDANNRSASEINLKKLQHLELMEDIVDLAKK
VANDSFLIGLLRIGCKIENKILAMEEALNWIKYAGDVTILTKLGSIDNCWPMLSIFFTEYKYHITKIVM
EDCNLLEELKTQSCMDCIEEGELMKMGNEEF SKERFDIAIIYYTRAIEYRPENYLLYGNRALCFLRTGQ
FRNALGDGKRATILKNTWPKGHYRYCDALSMLGEYDVALQANIKAKQLCKNDPEGIKDLIQHVKLQKQI
EDLQGRANKDPIKAFYENRAYTPRSLSAPIFTTSLNFVEKERDFRKHINHEMANGGNQLKVADEALKVD
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QFKRIIEHYHSEGLDCLAYCGIGKVVYLLKKNRFLALNHFEKARTLIYRPLGVL TWPTSNVIEESQPKI
KMLLEKFVEECKFPVPDAICCYQKCHGYSKIYITDPDFKGFIRISCCQYCKIEFHMCWKKLKTTF
NDKIDKDFLQGI CLTPDCEGVI SKIIFSSGGEVKCEFEHKVIEKVPVPPRILKQKCSSLEKRLKEDKK
LKRKIQKKEAKLAQERMEEDLRESNPPKNEEQKETVDNVQRCQFLDDRILQCICKYADKIKSGIQNTAM
LLKELLSWKV LSTEDYTTCFSSRNFLNEAVDYVIRHLIQENNRVKT RIFLHVLSELKEVEPKLAAWIQKL
NSFGLDATGTFFSRYGASLKLDFSIMTFLWNEKYGHKLDSEIGKQLDYFSEPASLKEARCLIWLEEHR
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HGPLDMSNMFSAEYEFFPEETRQILEKAGGLKPFLLGCPRFVVIDNCIALKKNVASRLKKRKKKNIKTK
VEEISKAGEYVRV KQLNPAAREFKPDVKSKPVS DSSSAPAFENVKPKPVSANS PKPACEDVKAKPVSDN
SSRQVSEDGQPKGVSSNSPKPGSEDANYKRVSCNSPKVLEDVKPTYWAQSHLVTGYCTYLPFRFDITQ
TPPAYINVLPGLPQYTSIYTPLASLSPEYQLPRSVPVVPSFVANDRADKNAAYFEGHHLNAENVAGHQI
ASETQILEGSLGISVKSHCSTGDAHTVLSSENRNDEHCGNSNNKCEVIP ESTSAVTNIPHVMVAIQVSW
NIIHQEVNTEPYNPFEE RQGEISRIEKEHQV LQDQLQEVYENYEQIKLKGLEETRDLEELKRHLEENKI
SKTELDWFLQDLEREIKKWQEKKEIQERL KSLKKIKKVSNASEMYTQKNDGKEKEHELHLDQSLEISN
TLTNEKMKIEEYIKKGKEDYEESHQRAVA AEVSVLENWKESEVYKLQIMESQAEFLKGLISRDPAA Y
PDMESDIRSWELFLSNVTKEIEKAKSQFEEQIKAIKNGSRLSEL SKVQISELSFPACNTVHPELLPESSG
VADRKQVPVPPGRAARSSQSPKPFNSIIEHL SVVFCYNSTELAGFIKKVRSKNKNSLSGLSIDEIVQRV
TEHILDEQKKKKPNPGDKR TYEPSSATPVTRSSQGPSVVVAPSPKTKGQKAE DVPVRIALGASSCEIC
HEVFKSKNVRV LKCGHKYHKGCFKQWLKGQSAC PACQGRDLLTEESPSGRGWPSQNQELPSCSSR

TRTRPLE - GFP Tag - V

Restriction Sites:

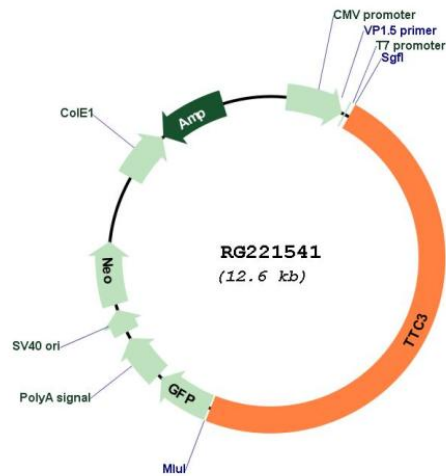
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_003316

ORF Size: 6075 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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_003316.4
RefSeq Size:	9021 bp
RefSeq ORF:	6078 bp
Locus ID:	7267
UniProt ID:	P53804
Cytogenetics:	21q22.13
Domains:	TPR, RING
Protein Families:	Druggable Genome
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>