

Product datasheet for **RG217791**

TACC1 (NM_006283) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TACC1 (NM_006283) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TACC1
Synonyms:	Ga55
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG217791 representing NM_006283
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGTTAGCCCGTGGCAGATCCTGTCCCCGTGCAGTGGCGAAATGGACGTGGTCTCGCGTACGCG
 GCGGGGCCGCGCGAGGACGAGGCTGGCGGGCCGAGGGCGACCCGAGGAGGAGGATTCGCAAGCCGA
 GACCAAATCCTTGAGTTTCAGCTCGATTCTGAAGGTAATTTTGAGACTCCTGAAGCTGAAACCCCGATC
 CGATCACCTTTCAAGGAGTCTGTGATCCATCACTCGATTGGCAGGACCTGGGGCCAAAAGCCAAGAAT
 CACAAGAAGCTGATGAACAGCTTGTAGCAGAAGTGGTTGAAAAATGTTTCATCTAAGACTTGTCTAAACC
 TTCAGAAAATGAAGTGCCACAGCAGGCCATTGACTCTCACTCAGTCAAGAATTTTCAGAGAAGAACCTGAA
 CATGATTTTAGCAAAATTTCCATCGTGAGGCCATTTTCAATAGAAACGAAGGATTCACGGATATCTCGG
 CAGTCTCGGAACAAAAGCAGCTCATGGCTGTGTAAGTGCAGTCTCAGGCAAGGCTCTGCCTTCAGCCC
 GCCAGACGCCCTCCAGGACGAGGCGATGACAGAAGGCAGCATGGGGGTCAACCTCGAGGCCCTCCGCAGAA
 GCTGATCTAAAAGCTGGCAACTCCTGTCCAGAGCTTGTGCCAGCAGAAGAAGCAAGCTGAGAAAAGCCCA
 AGCCTGTCCCCCTGAGGAAGAAAGCAATTGGAGGAGAGTTCTCAGACACCAACGCTGCTGTGGAGGGCAC
 ACCTCTCCCCAAGGCATCCTATCACTTCAGTCTGAAGAGTTGGATGAGAACACAAGTCTTTGCTAGGA
 GATGCCAGGTTCCAGAAGTCTCCCCCTGACATTAAGAAACTCCCGGCACTCTCAGTAGTGACACCAACG
 ACTCAGGGGTTGAGCTGGGGGAGGAGTCCAGGAGCTCACCTCTCAAGCTTGAGTTGATTTACAGAGA
 TACAGGAAACATAGAGGCCAGGAAAGCCCTTCCAAGGAAGCTTGGCAGGAAACTGGGTAGCACACTGACT
 CCCAAGATACAAAAGATGGCATCAGTAAGTCAAGCAGGTTTGAACAGCCTACAGACCCAGTGGCAGGAG
 ACGGGCCTCTCTCCAAACATCTTCCAAGCCAGATCCTAGTCAAGTGGGAGAGCCCAAGCTTCAACCCCTT
 TGGGAGCCACTCTGTTCTGCAGAACTCCCAACCCCTCTTCTGAGGGCTCCTACCACTTTGACCCAGAT
 AACTTTGACGAATCCATGGATCCCTTTAAACCAACTACGACCTTAACAAGCAGTACTTTTGTCTCCCA
 CTGGTAATCACGTTAATGAAATCTTAGAATCACCCAAGAAGGCAAGTTCGCGTTTAAACAGAGTGGCTG
 TAAGGTGAAGAAGCATGAAACTCAGTCTCTCGCCCTGGATGCATGTTCTCGGGATGAAGGGGCAAGTATC
 TCCAGATTTAGACATTTCTAATAGGGATGGCCATGCTACTGATGAGGAGAACTGGCATCCACGTCAT
 GTGGTCAGAAATCAGCTGGTGGCAGGTGAAAGGTGAGCCAGAGGAAGACCTGGAGTACTTTGAATGTTT
 CAATGTTCTGTGTCTACCATAAATCATGCGTTTTTCATCCTCAGAAGCAGGCATAGAGAAGGAGACGTGC
 CAGAAGATGGAAGAAGACGGGTCCACTGTGCTTGGGCTGCTGGAGTCTCTGCAGAGAAGGCCCTGTGT
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 CACCTTAATAAGAGAAGAGATAATTACTAAAGAGATTGAAGCAAATGAATGGAAGAAGAAATACGAAGAG
 ACCCGGCAAGAAGTTTTGGAGATGAGGAAAATTGTAGTGAATATGAAAAGACTATTGCTCAAATGATTG
 AAGATGAACAAAGGACAAGTATGACCTCTCAGAAGAGCTTCCAGCAACTGACCATGGAGAAGGAACAGGC
 CCTGGCTGACCTTAACCTGTGGAAAGGTCCCTTTCTGATCTCTCAGGAGATATGAGAACCTGAAAGGT
 GTTCTGGAAGGGTTCAAGAAGAATGAAGAAGCCTTGAAGAAATGTGCTCAGGATTAAGTCCAGAGTTA
 AACAAGAGGAGCAGCGATACCAGGCCCTGAAAAATCCACGCAGAAGAGAACTGGACAAAGCCAATGAAGA
 GATTGCTCAGGTTCAACAAAAGCAAAGGCTGAGAGTGCAGCTCTCCATGCTGGACTCCGCAAAGAGCAG
 ATGAAGGTGGAGTCCCTGAAAAGGGCCCTGCAGCAGAAGAACAAGAAATGAAGAAGTACAAAAATCT
 GTGATGAGCTGATTGCAAGCTGGGAAAGACTGAC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

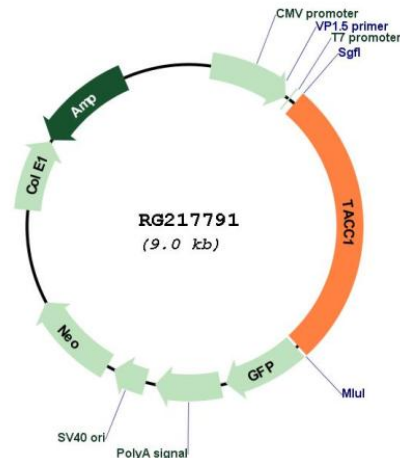
Protein Sequence: >RG217791 representing NM_006283
Red=Cloning site Green=Tags(s)

MAFSPWQILSPVQWAKWTWSAVRGGAGEDEAGGPEGDPPEEEDSQAETKSLSFSSDSEGNFETPEAETPI
RSPFKESCDPSLGLAGPAKSQESQEADEQLVAEVVEKCSSKTCSENEVPQQAIDSHSVKNFREPEE
HDFSKIIVRPFISIETKDSTDISAVLGTAAHGCVTAVSGKALPSSPPDALQDEAMTEGSMGVTLEASAE
ADLKAGNSCEPELVPSRRSKLRKPKVPLRKKAIIGGEFSDTNAAVEGTPLPKASYHFSPEELDENTSPLLG
DARFQKSPPDIKETPGTLLSSDTNDSGVELGEESRSPKLKLEFDFTEDTGNIEARKALPRKLGRKLGSTLT
PKIQKDGISKSAGLEQPTDPVARDGPLSQTSSKPDPSQWESPSFNPFSGSHSVLQNSPPLSSEGSYHFDPD
NFDESMDPFKPTTTLTSSDFCSPTGNHVNEILESPKKAKSRLITSGCKVKKHETQSLALDACSRDEGAVI
SQISDISNRDGHATDEEKLASTSCGQKSAGAEVKGEPEEDLEYFECSNVPVSTINHAFFSSEAGIEKETC
QKMEEDGSTVLGLESSEAEKAPVSVSCGGESPLDGICLSESDKTAVLTLIREEIIITKEIEANEWKKKYEE
TRQEVLEMRKIVAEYEKTI AQMIEDEQRTSMTSQKSFQQLTMEKEQALADLNSVERSLSDLFRRYENLKG
VLEGFKKNEEALKKCAQDYLRVKQEEQRYQALKIHAEEKLDKANEEIAQVVRTKAKAESAAALHAGLRKEQ
MKVESLERALQQKNQEIEELTKICDELI AKLGKTD

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Plasmid Map:



ACCN: NM_006283

ORF Size: 2415 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_006283.1](#), [NP_006274.1](#)

RefSeq Size: 7758 bp

RefSeq ORF: 2418 bp

Locus ID: 6867

UniProt ID: [O75410](#)

Cytogenetics: 8p11.22

Domains: TACC

Gene Summary: This locus may represent a breast cancer candidate gene. It is located close to FGFR1 on a region of chromosome 8 that is amplified in some breast cancers. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2017]