

Product datasheet for **RG201791**

TWF2 (NM_007284) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	TWF2
Synonyms:	A6r; A6RP; MSTP011; PTK9L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG201791 representing NM_007284
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGCACCAACGGGCATCCACGCCACGGAAGAGCTGAAGGAATCTTTGCCAAGGCACGGGCTGGCT
CTGTGCGGGCTCATCAAGGTTGTGATTGAGGACGAGCAGCTCGTGCTGGGTGCCTCGCAGGAGCCAGTAGG
CCGTGGGATCAGGACTATGACAGGGCCGTGCTGCCACTGCTGGACGCCAGCAGCCCTGCTACCTGCTC
TACCGCCTCGACTCACAGAATGCTCAGGGCTTCAATGGCTCTTCTCGCCTGGTCGCCTGATAACTCCC
CCGTGCGGGCTGAAGATGCTGTACGCGGCCACGCGGGCCACAGTGAAAAAGGAGTTTGAGGTGGCCACAT
CAAGGATGAGCTCTTCGGGACTGTGAAGGATGACCTCTCTTTGCTGGGTACCAGAAACACCTGTCGTCC
TGTGCGGCACCTGCCCCGCTGACCTCGGCTGAGAGAGAGCTCCAGCAGATCCGCATTAACGAGGTGAAGA
CAGAGATCAGTGTGAAAGCAAGCACCAGACCTGCAGGGCCTCGCCTTCCCCCTGCAGCCTGAGGCCCA
GCGGGCACTCCAGCAGCTCAAGCAGAAGATGGTCAACTACATCCAGATGAAGCTGGACCTAGAGCGGGAA
ACCATGAGCTGGTGACACAGAGCCACGGATGTGGCCAGCTGCCCTCCCGGTGCCCCGAGATGCTG
CCCGCTACCACTTCTTCTCTACAAGCACACCCATGAGGGCGACCCCTTGAGTCTGTAGTGTTCATCTA
CTCCATGCCGGGTACAAGTGCAGCATCAAGGAGCGAATGCTCTACTCCAGCTGCAAGAGCCGCTCCTC
GACTCCGTGGAGCAGGACTTCCATCTGGAGATCGCCAAGAAAATTGAGATTGGCGATGGGGCAGAGCTGA
CGGCAGAGTTCCTCTACGACGAGGTGACCCCAAGCAACACGCCTTCAAGCAGGCCTTCGCCAAGCCCAA
GGGCCAGGGGCAAGCGGGGCCATAAGCGCTCATCCGCGCCCGGGTAAAAATGGGGATGACAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG201791 representing NM_007284
 Red=Cloning site Green=Tags(s)

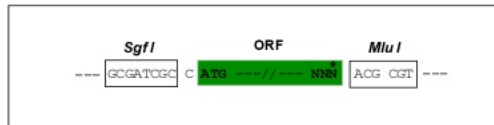
MAHQTGIHATEELKEFFAKARAGSVRLIKVVIIEDEQLVLGASQEPVGRWDQDYDRAVLPLLLDAQQPCYLL
 YRLDSQNAQGFEWFLAWSPDNPSVRLKMLYAATRATVKKEFGGGHIKDELFGTVKDDL SFAGYQKHLSS
 CAAPAPL TSAERELQQIRINEVKTEISVESKHQTLQGLAFPLQPEAQRALQQLKQKMVNYIQMKDLERE
 TIELVHTEPTDVAQLPSRVPRDAARYHFFLYKHTHEGDPLESVVFIYSMPGYKCSIKERMLYSSCKSRL
 DSVEQDFHLEIAKKIEIGDGAELTAEFLYDEVHPKQHAFKQAFKPKPGGKRGHKRLIRPGENGDDS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC - - - -

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - - -

PmeI FseI

- - - GAA GAA AGA GTT TAA ACGGCCGCGCGGAGCT

- - - E E R V Stop

ACCN: NM_007284

ORF Size: 1047 bp

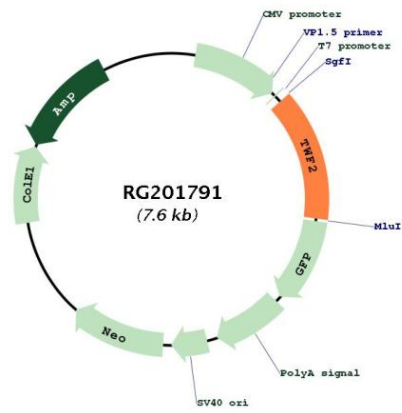
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_007284.3</u> , <u>NP_009215.1</u>
RefSeq Size:	1659 bp
RefSeq ORF:	1050 bp
Locus ID:	11344
UniProt ID:	<u>Q6IBS0</u>
Cytogenetics:	3p21.2
Domains:	ADF
Protein Families:	Druggable Genome
Gene Summary:	The protein encoded by this gene was identified by its interaction with the catalytic domain of protein kinase C-zeta. The encoded protein contains an actin-binding site and an ATP-binding site. It is most closely related to twinfilin (PTK9), a conserved actin monomer-binding protein. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG201791