

Product datasheet for **RG232570**

PTK9 (TWF1) (NM_001242397) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTK9 (TWF1) (NM_001242397) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TWF1
Synonyms:	A6; PTK9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG232570 representing NM_001242397 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCCACCAGACCGGCATCCAAGCAAGTGAAGATGTTAAAGAGATCTTGGCCAGAGCCAGAAATGGAA
AGTACAGACTTCTGAAAATATCTATTGAAAATGAGCAACTGTGATTGGATCATATAGTCAGCCTTCAGA
TTCCTGGGATAAGGATTATGATTCCTTTGTTTTACCCCTGTTGGAGGACAAACAACCATGCTATATATTA
TTCAGGTTAGATTCTCAGAATGCCAGGGATATGAATGGATATTCATTGCATGGTCTCCAGATCATTCTC
ATGTTTCGTCAAAAATGTTGTATGCAGCAACAAGAGCAACTCTGAAGAAGGAATTTGGAGGTGGCCACAT
TAAAGATGAAGTATTTGGAACAGTAAAGGAAGATGTATCATTACATGGATATAAAAAATACTTGGCTGCA
CAATCTTCCCCTGCCCACTGACTGCAGCTGAGGAAGAACTACGACAGATTAATAATCAATGAGAGCCAG
AGGATCATATTGGGTACAGACTGACGTGGGTGTGGACACTAAGCATCAAACACTACAAGGAGTAGCATT
TCCCATTCTCGAGAAGCCTTTCAGGCTTTGGAAAAATGAATAATAGACAGCTCAACTATGTGCAGTTG
GAAATAGATATAAAAAATGAAATATAATTTGGCCAACAACAATAACAGAACTGAAAGATTTGCCAA
AGAGGATCCCAAGGATTCAGCTCGTTACCATTCTTTCTGTATAAACATTCCCATGAAGGAGACTATTT
AGAGTCCATAGTTTTTTATTTTCAATGCCTGGATACACATGCAGTATAAGAGAGCGGATGCTGTATTCT
AGCTGCAAGAGCCGTCTGCTAGAAATTTAGAAAGACAACACTACAAATGGATGTAATTAGAAAGATCGAGA
TAGACAATGGGGATGAGTTGACTGCAGACTTCCTTTATGAAGAAGTACATCCCAAGCAGCATGCACACAA
GCAAAGTTTTGCAAAACAAAAGGTCCTGCAGGAAAAAGAGGAATTCGAAGACTAATTAGGGGCCAGCG
GAAACTGAAGCTACTACTGAT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232570 representing NM_001242397
 Red=Cloning site Green=Tags(s)

MSHQTGIQASEDVKEIFARARNGKYRLLKISIEENQLVIGSYSQPSDSWDKDYDSFVLPILLEDKQPCYIL
 FRLDSQNAQGYEWIFIAWSPDHSVHRQKMLYAATRATLKKEFGGGHIKDEVFGTVKEDVSLHGYYKLLS
 QSSPAPLTAEEEEELRQIKINESPEDHIGVQTDVGVDTKHQTLQGVAFPI SREAFQALEKLNRRQLNYVQL
 EIDIKNEI I I L A N T T N T E L K D L P K R I P K D S A R Y H F F L Y K H S H E G D Y L E S I V F I Y S M P G Y T C S I R E R M L Y S
 SCKSRLL E I V E R Q L Q M D V I R K I E I D N G D E L T A D F L Y E E V H P K Q H A H K Q S F A K P K G P A G K R G I R R L I R G P A
 E T E A T T D

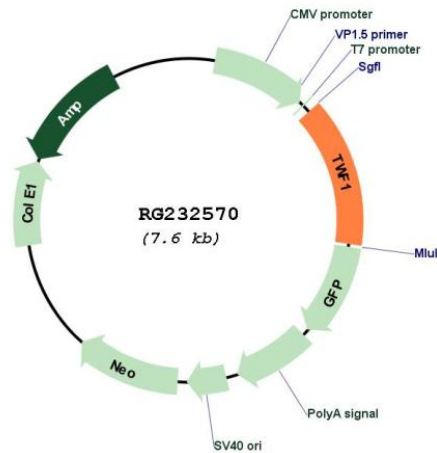
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001242397

ORF Size:	1071 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:	<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_001242397.2
RefSeq Size:	3083 bp
RefSeq ORF:	1074 bp
Locus ID:	5756
UniProt ID:	Q12792
Cytogenetics:	12q12
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	This gene encodes twinfilin, an actin monomer-binding protein conserved from yeast to mammals. Studies of the mouse counterpart suggest that this protein may be an actin monomer-binding protein, and its localization to cortical G-actin-rich structures may be regulated by the small GTPase RAC1. [provided by RefSeq, Jul 2008]