

Product datasheet for **RG207215**

PTK9 (TWF1) (NM_002822) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTK9 (TWF1) (NM_002822) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PTK9
Synonyms:	A6; PTK9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207215 representing NM_002822 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACGCGCCGGGGCCGGCGGAGGAGCAGCCACTTCTGGGGCCGCCGGCCGGGGCCGCTGGCTGCACTC
AGCGCCGGAGCCGGGAGCTAGCGGCCGCCCATGTCCCACCAGACCGGCATCCAAGCAAGTGAAGATGT
TAAAGAGATCTTTGCCAGAGCCAGAAATGGAAAGTACAGACTTCTGAAAATATCTATTGAAAATGAGCAA
CTTGTGATTGGATCATATAGTCAGCCTCAGATTCCTGGGATAAGGATTATGATTCCTTTGTTTACCCC
TGTTGGAGGACAAACAACCATGCTATATATTATTCAGGTTAGATTCTCAGAATGCCCAGGATATGAATG
GATATTCATTGCATGGTCTCCAGATCATTCTCATGTTTCGTCAAAAATGTTGTATGCAGCAACAAGAGCA
ACTCTGAAGAAGGAATTTGGAGGTGGCCACATTAAGATGAAGTATTTGGAACAGTAAAGGAAGATGTAT
CATTACATGGATATAAAAAATACTTGTGTCAATCTTCCCCTGCCCACTGACTGCAGCTGAGGAAGA
ACTACGACAGATTAATAATCAATGAGGTACAGACTGACGTGGGTGTGGACACTAAGCATCAAACTACAA
GGAGTAGCATTCCCATTCTCGAGAAGCCTTTCAGGCTTTGGAAAAATTGAATAATAGACAGCTCAACT
ATGTGCAGTTGGAATAGATATAAAAAATGAAATTATAATTTGGCCAACACAACAATACAGAAGTAA
GGAGACTTTAGAGTCCATAGTTTTTATTATTCATGCTGGATACACATGCAGTATAAGAGAGCGGA
TGCTGTATTCTAGCTGCAAGAGCCGTCTGCTAGAAATTGTAGAAAGACAACACTACAAATGGATGTAATTAG
AAAGATCGAGATAGACAATGGGGATGAGTTGACTGCAGACTTCCTTTATGAAGAAGTACATCCCAAGCAG
CATGCACACAAGCAAAGTTTTGCAAAACAAAAGGTCCTGCAGGAAAAAGAGGAATTCGAAGACTAATTA
GGGCCCCAGCGAAACTGAAGCTACTACTGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG207215 representing NM_002822
 Red=Cloning site Green=Tags(s)

MTRRGRSSSHFLGPPAGAAGCTQRRSRELAAMSHQTGIQASEDVKEIFARARNGKYRLLKISIESEQ
 LVIGSYSQPSDSWDKDYDSFVLPLEEDKQPCYILFRLDSQNAQGYEWIFIAWSPDHSVVRQKMLYAATRA
 TLKKEFGGGHIKDEVFGTVKEDVSLHGYYKLLSQSSAPLTAEEELRQIKINEVQTDVGVDTKHQTLQ
 GVAFPISREAFQALEKLNRLNRYVQLEIDIKNEIIILANTTNTTELKDLPKRIPKDSARYHFFLYKHSHE
 GDYLESIVFIYSMPGYTCSIRERMLYSSCKSRLLIEIVERQLQMDVIRKIEIDNGDELTAFLYEEVHPKQ
 HAHKQSFAPKPGPAGKRGIRRLIRGPAETEATTD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002822

ORF Size: 1152 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_002822.3](#), [NP_002813.2](#)

RefSeq Size: 3065 bp

RefSeq ORF: 1053 bp

Locus ID: 5756

UniProt ID: [Q12792](#)

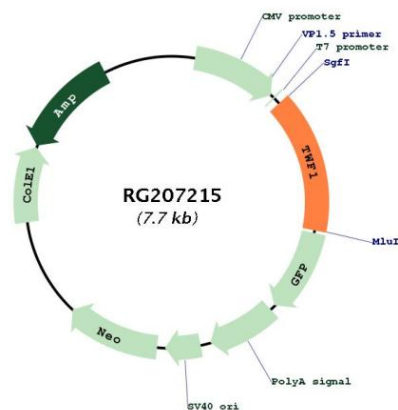
Cytogenetics: 12q12

Domains: ADF

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]

Product images:



Circular map for RG207215