

## Product datasheet for SC109662

### PTK9 (TWF1) (NM\_002822) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PTK9 (TWF1) (NM_002822) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTK9
Synonyms:	A6; PTK9
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_002822 edited  
GGGCGGCCGGAATTCGGCACGAGGGGCCGGGCGCTGGCTGCACTCAGCGCCGGAGCC  
GGGAGCTAGCGGCCCGCCCATGTCCCACAGACCGGCATCCAAGCAAGTGAAGATGTTA  
AAGAGATCTTTGCCAGAGCCAGAAATGGAAAGTACAGACTTCTGAAAATATCTATTGAAA  
ATGAGCAACTTGTGATTGGATCATATAGTCAGCCTTCAGATTCCTGGGATAAGGATTATG  
ATTCCTTTGTTTTACCCCTGTTGGAGGACAAACAACCATGCTATATATTTCAGGTTAG  
ATTCTCAGAATGCCAGGGATATGAATGGATATTCATTGCATGGTCTCCAGATCATTCTC  
ATGTTTCGTCAAAAATGTTGTATGCAGCAACAAGGCAACTCTGAAGAAGGAATTTGGAG  
GTGGCCACATTAAGATGAAGTATTTGGAACAGTAAAGGAAGATGTATCATTACATGGAT  
ATAAAAAATACTTGCTGTCACAATCTTCCCTGCCCACTGACTGCAGCTGAGGAAGAAC  
TACGACAGATTAATCAATGAGGTACAGACTGACGTGGGTGTGGACACTAAGCATCAAA  
CACTACAAGGAGTAGCATTTCCATTTCTCGAGAAGCCTTTCAGGCTTTGGAAAAATTGA  
ATAATAGACAGCTCAACTATGTGCAAGTTGGAAATAGATATAAAAAATGAAATTATAATTT  
TGGCCAACACAACAAATACAGAACTGAAAGATTTGCCAAAGAGGATTCCTCAAGGATTCAG  
CTCGTTACCATTTCTTTCTGTATAAACATTCCCATGAAGGAGACTATTTAGAGTCCATAG  
TTTTTATTTATCAATGCCTGGATACACATGCAGTATAAGAGAGCGGATGCTGTATTCTA  
GCTGCAAGAGCCGCTGCTAGAAATTGTAGAAAGACAACACTACAAATGGATGTAATTAGAA  
AGATCGAGATAGACAATGGGGATGAGTTGACTGCAGACTTCCTTTATGAAGAAGTACATC  
CCAAGCAGCATGCACACAAGCAAAGTTTTGCAAAACAAAAGGTCCTGCAGGAAAAAGAG  
GAATTCGAAGACTAATTAGGGGCCAGCGGAACTGAAGCTACTACTGATTAAGTCAATC  
ACATTAACATTGTAATACTAGTTTTTTAAAAAGTCCAGCTTTTAGTACAGGAGAAGTAA  
ATCATTCCATGTTGATATAAAGTAGGAAAAAAATTTGACTTTTTGGAAAAATGCACTTT  
TCACTTCTGTGTGTTTTTAAAAATTAATGTTATAGAAGACTCATGATTTCTATTTTGGAGT  
TAAAGCTAGAAAAGGTTCAACATAATGTTAATTTTGTACACTGTTTTTCATAGCGTTG  
ATTCCACACTTCAAATACTTCTTAAAAATTTT



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_002822 unedited NGTCAGAAATTTGTATACGACTCATATAGGGCGGCCGCAATTCGCACGAGGGGCCGGGGC CGCTGGCTGCACTCAGCGCCGGAGCCGGGAGCTAGCGGCCGCCCATGTCCCACCAGAC CGGCATCCAAGCAAGTGAAGATGTTAAAGAGATCTTTGCCAGAGCCAGAAATGGAAGTA CAGACTTCTGAAAATATCTATTGAAAATGAGCAACTTGTGATTGGATCATATAGTCAGCC TTCAGATTCTGGGATAAGGATTATGATTCCTTTGTTTTACCCCTGTTGGAGGACAAACA ACCATGTATATATTATTTCAGGTTAGATTCTCAGAAATGCCAGGGATATGAATGGATATT CATTGCATGGTCTCCAGATCATTCTCATGTTTCGTCAAAAAATGTTGTATGCAGCAACAAG AGCAACTCTGAAGAAGGAATTTGGAGGTGGCCACATTAAGATGAAGATTTTGGAAACAGT AAAGGAAGATGTATCATTACATGGATATAAAAAATACTTGCTGTCACAATCTTCCCCTGC CCCCTGACTGCAGCTGAGGAAGAACTACGACAGATTAATCAATGAGGTACAGACTGA CGTGGGTGTGGACACTAAGCATCAAACTACAAGGAGTAGCATTTCCTTTCTCGAGA AGCCTTTAGGCTTTGAAAAATGAATAATAGACAGCTCAACTATGTGCAGTTGGAAT AGATATAAAAAATGANATTATAATTTTGGCCAACAACANATACAGAACTGGAAGATTT GCCAAAGAGGATTCCTCAAGGATTCAGCTCGTTACCATTTCTTTCTGTATAAACATTCCTC ATGAAGGAGATATTTAGAGTCCCATAGTTTTATTATTATCATGCCTGGCTACCCATGCAGT ATAGAANAGCGA
<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_002822 unedited TGGCCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTAAAGAGAAAAATTT TTATTGTGATATAAAATGCACCTATAAAATGTCCACCAGAAGGCATGTAATTCCTCACTG CTATATAAATTTACTGGGAATATGTTATTCACCATCTAGGTATGATACTGCCAACTAAAA CATACTGTAACGATGAGTTATACTCTATAACAAATGCATCACTGATTTTCAGCAATCAT TGGTTTAAATAAATAATTAGTTAAGACTATAATCACATCTATATTCTGGAATGTCCATTTA CTTAAATGTAGTGTAGTGGAAATTTAGAGTATAATTGCACATAGATGGTACAGAAAAACAT TCACTTCTAAATTTTTATACCTTCATGACAGGTAGTCTTCTGACTGAAAAAACAGC TTCAGCTATGGTCTGCTCCAGGATTCCTAATGCAATAATTTGGGTGTATGTGTCTGTC TACGTGTACCCCATGGAACAATTATATCTTTAGTAAACAAGTCAACATTTATTGTCAG TTATTTTGCATGTTTAAATATTATAGTCTGATTATTTGTAACAAACAAAACCCCAAATA CTCTAAATCTATTTAAAAATCTGTCAACCCACAATTATTCTAATATGCTTTACTTACT CGAACACAAATTTCTGAAAGGTGCATATATTACCTTAGATAANTAAGTTTAGAAATGAGT GCTTTACACTATGAAATGTGCATTTCCGATAGTATTTATGCAGCATAAAGTTTAGATCA CAGAAATTACAATCCTGGATCCCCACATTCATTTAAAAATGCCTAAAGTTATGGTTTTGC ACCAGGTTAACAGATAAACTTAAATGTTCTGCCTCCTTTATTCCAGTTCAAAGATATGAG GCT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002822
<b>Insert Size:</b>	2800 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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\\_002822.2](#), [NP\\_002813.1](#)

**RefSeq Size:** 3085 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]  
Transcript Variant: This variant (2) lacks an in-frame exon in the coding region, compared to variant 1. The encoded isoform (2) is shorter than isoform 1.