

## Product datasheet for SC317614

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

#### Product data:

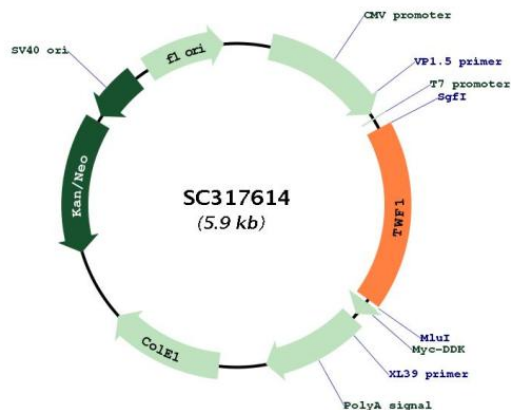
Product Type:	Expression Plasmids
Product Name:	PTK9 (TWF1) (NM_002822) Human Untagged Clone
Tag:	Tag Free
Symbol:	TWF1
Synonyms:	A6; PTK9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC317614 representing NM_002822. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCACCAGACCGGCATCCAAGCAAGTGAAGATGTTAAAGAGATCTTGGCAGAGCCAGAAATGGA
AAGTACAGACTTCTGAAAATATCTATTGAAAATGAGCAACTTGTGATTGGATCATATAGTCAGCCTCA
GATTCCTGGGATAAAGATTATGATTCTTTGTTTACCCTGTTGGAGGACAAACAACCATGCTATATA
TTATTCAGGTTAGATTCTCAGAAATGCCAGGGATATGAATGGATATTCATTGCATGGTCTCCAGATCAT
TCTCATGTTTCGCAAAAAATGTTGTATGCAGCAACAAGAGCAACTCTGAAGAAGGAATTTGGAGGTGCC
CACATTAAGATGAAGTATTTGGAACAGTAAAGGAAGATGTATCATTACATGGATATAAAAAATACTTG
CTGTCACAATCTCCCTGCCCACTGACTGCAGCTGAGGAAGAACTACGACAGATTAATAATCAATGAG
GTACAGACTGACGTGGGTGTGGACACTAAGCATCAAACACTACAAGGAGTAGCATTTCCTTTCTCGA
GAAGCCTTTCAGGCTTTGGAAAAATGAAATAATAGACAGCTCAACTATGTGCAGTTGGAAATAGATATA
AAAAATGAAATTAATTTTGGCCAACAACAATAACAGAACTGAAAGATTTGCCAAAGAGGATTTCC
AAGGATTCAGCTCGTTACCATTTCTTTCTGTATAAACATTTCCCATGAAGGAGACTATTTAGAGTCCATA
GTTTTTATTTATCAATGCCTGGATACACATGCAGTATAAGAGAGCGGATGCTGTATTCTAGCTGCAAG
AGCCGTCTGCTAGAAATGTAGAAAGACAACACTACAAATGGATGTAATTAGAAAGATCGAGATAGACAAT
GGGGATGAGTTGACTGCAGACTTCTTTATGAAGAAGTACATCCAAGCAGCATGCACACAAGCAAAGT
TTTGCAAAACCAAAGGTCTGCAGGAAAAAGAGGAATTCGAAGACTAATTAGGGGCCACGCGGAAACT
GAAGCTACTACTGATTA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGCGCCGC
```

Restriction Sites: SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_002822

**Insert Size:** 1053 bp

**OTI Disclaimer:** 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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_002822.4](#)

**RefSeq Size:** 3062 bp

**RefSeq ORF:** 1053 bp

**Locus ID:** 5756

UniProt ID:	<u>Q12792</u>
Cytogenetics:	12q12
Domains:	ADF
Protein Families:	Druggable Genome, Protein Kinase
MW:	40.3 kDa
Gene Summary:	<p>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]</p> <p>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.</p>