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Product datasheet for SC121172

PTK9 (TWF1) (NM_198974) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTK9 (TWF1) (NM_198974) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTK9
Synonyms:	A6, MGC23788, MGC41876
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC121172 sequence for NM_198974 edited (data generated by NextGen Sequencing)

ATGTTGTATGCAGCAACAAGAGCAACTCTGAAGAAGGAATTTGGAGGTGGCCACATTAAA
GATGAAGTATTTGGAACAGTAAAGGAAGATGTATCATTACATGGATATAAAAAATACTTG
CTGTCACAATCTTCCCCTGCCCCACTGACTGCAGCTGAGGAAGAACTACGACAGATTAAA
ATCAATGAGGTACAGACTGACGTGGGTGTGGACACTAAGCATCAAACACTACAAGGAGTA
GCATTTCCCATTTCTCGAGAAGCCTTTCAGGCTTTGGAAAAATTGAATAATAGACAGCTC
AACTATGTGCAGTTGGAAATAGATATAAAAAATGAAATTATAATTTTGGCCAACACAACA
AATACAGAACTGAAAGATTTGCCAAAGAGGATTCCCAAGGATTCAGCTCGTTACCATTTC
TTTCTGTATAAACATTCCCATGAAGGAGACTATTTAGAGTCCATAGTTTTTATTTATTCA
ATGCCTGGATACACATGCAGTATAAGAGAGCGGATGCTGTATTCTAGCTGCAAGAGCCGT
CTGCTAGAAATTGTAGAAAGACAACTACAAATGGATGTAATTAGAAAGATCGAGATAGAC
AATGGGGATGAGTTGACTGCAGACTTCCTTTATGAAGAAGTACATCCCAAGCAGCATGCA
CACAAGCAAAGTTTTGCAAAACCAAAAGGTCCTGCAGGAAAAAGAGGAATTCGAAGACTA
ATTAGGGGCCCAGCGGAAACTGAAGCTACTACTGATTAA

Clone variation with respect to NM_198974.1

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_198974 unedited
AATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGGNAAAATGTTAAAGAGATC
TTTGCCAGAGCCAGAAATGGAAAGTACAGACTTCTGAAAATATCTATTGAAAATGAGCAA
CTTGTGATTGGATCATATAGTCAGCCTTCAGATTCCTGGGATAAGGATTATGATTCCTTT
GTTTTACCCCTGTTGGAGGACAAACAACCATGCTATATATTATTCAGGTTAGATTCTCAG
AATGCCCAGGGATATGAATGGATATTCATTGCATGGTCTCCAGATCATTCTCATGTTCGT
CAAAAAATGTTGTATGCAGCAACAAGAGCAACTCTGAAGAAGGAATTTGGAGGTGGCCAC
ATTAAAGATGAAGTATTTGGAACAGTAAAGGAAGATGTATCATTACATGGATATAAAAAA
TACTTGCTGTCACAATCTTCCCCTGCCCCACTGACTGCAGCTGAGGAAGAACTACGACAG
ATTAAAATCAATGAGGTACAGACTGACGTGGGTGTGGACACTAAGCATCAAACACTACAA
GGAGTAGCATTTCCCATTTCTCGAGAAGCCTTTCAGGCTTTGGAAAAATTGAATAATAGA
CAGCTCAACTATGTGCAGTTGGAAATAGATATAAAAAATGAAATTATAATTTTGGCCAAC
ACAACAAATACAGAACTGAAAGATTTGCCAAAGAGGATTCCCAAGGATTCAGCTCGTTAC
CATTTCTTTCTGTTAAACATTCCCATGAAGGAGACTATNTAGAGTCCATAGTTNTTATTT
ATTCAATGCCTGGATACACATGCAGTATAAGAGAGCGGATGCTGTATTCTACTGCAAGAG
CCGTCTGCTANAAATGTANAAAGACACTACAAATGATGTATTANAAAGACGAGATAACAT
GGGATGAGTGACTGCGACTTCTTATGGAGAGTCTCCNAGCAGCTGCCANAGCAAGTTTGC
AAACCAAAGTCTGCGGAAAGAGAATA

Restriction Sites: NotI-NotI

ACCN: NM_198974

Insert Size: 2800 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).

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_198974.1, NP_945325.1

RefSeq Size: 3455 bp

RefSeq ORF: 759 bp

Locus ID: 5756

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]
Transcript Variant: This variant (2) uses an alternate splice site in the 5' region compared to variant 1, resulting in translation initiation at a downstream start codon and an isoform (2) with a shorter N-terminus compared to isoform 1.