

Product datasheet for **SC323976**

PNK (PNKP) (NM_007254) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PNK (PNKP) (NM_007254) Human Untagged Clone
Tag:	Tag Free
Symbol:	PNK
Synonyms:	AOA4; CMT2B2; EIEE10; MCSZ; PNK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_007254.2
 GGAACCGACCGCCGCGCGGGTTGCAGGCGGGGCACCTCGGGCAGGACCTCCCTGGTC
 GGAAGTGGCCGTGAGCCCAAGCCGCGGTCCCGGGCCGGCACCCAGGATGGGCGAGGTGGA
 GGCCCCGGGCCGCTTGTGGCTCGAGAGCCCCCTGGGGGAGCGCCCCCATCTTCCTGCC
 CTCGGACGGGCAAGCCCTGGTCTGGGCAGGGGACCCCTGACCCAGGTTACGGACCGGAA
 GTGCTCCAGAACTCAAGTGGAGCTGGTCGCAGATCCTGAGACCCGGACAGTGGCAGTGAA
 ACAGCTGGGAGTTAACCCCTCAACTACCGGGACCCAGGAGTTGAAGCCGGGGTTGGAGGG
 CTCTCTGGGGGTGGGGGACACACTGTATTTGGTCAATGGCTCCACCCACTGACCCTGGC
 CTGGGAAGAGACCCGCACACCAGAATCCCAGCCAGATACTCCGCCTGGCACCCCTCTGGT
 GTCCCAAGATGAGAAGAGAGATGCTGAGCTGCCGAAGAAGCGTATGCGGAAGTCAAACCC
 CGGCTGGGAGAACTTGGAGAAGTTGCTAGTGTTCAACCGCAGCTGGGGTGAACCCAGGG
 CAAGGTGGCTGGCTTTGATCTGGACGGGACGCTCATCACCACACGCTCTGGGAAGTCTT
 TCCCACTGGCCCCAGTGACTGGAGGATCTGTACCCAGAGATTCCCCGTAAGCTCCGAGA
 GCTGGAAGCCGAGGGCTACAAGTGGTGTATCTTACCAACCAGATGAGCATCGGGCGGG
 GAAGCTGCCAGCCGAGGAGTTCAAGGCCAAGGTGGAGGCTGTGGTGGAGAAGCTGGGGGT
 CCCTTCCAGGTCTGGTGGCCACGCACGAGGCTTGTACCGGAAGCCGGTGACGGGCAT
 GTGGGACCATCTGCAGGAGCAGGCCAACGACGGCACGCCCATATCCATCGGGGACAGCAT
 CTTTGTGGGAGACGCAGCCGGACGCCCGGCAACTGGGCCCGGGGCGGAAGAAGAAAGA
 CTTCTCCTGCGCCGATCGCCTGTTTGCCTCAACCTTGGCCTGCCCTTCGCCACGCTGA
 GGAGTTCTTTCTCAAGTGGCCAGCAGCCGGCTTCGAGCTCCAGCCTTTGATCCGAGGAC
 TGTCTCCCGCTCAGGGCTCTCTGCCTCCCCGAGTCCAGGGCCCTCCTGAGCGCCAGCCC
 GGAGTGGTTGTGCGAGTGGGATTCCCTGGGGCCGGGAAGTCCACCTTTCTCAAGAAGCA
 CCTCGTGTGGCCGGATATGTCCACGTGAACAGGGACACGCTAGGCTCCTGGCAGCGCTG
 TGTGACCAGTGTGAGACAGCCCTGAAGCAAGGGAACGGGTCCGCATCGACAACACAAA
 CCCAGACGCCGCGAGCCGCGCCAGGTACGTCCAGTGTGCCGAGCCGCGGGCGTCCCCTG
 CCGCTGCTTCTTACCCGCACTCTGGAGCAGGCGCGCCACAACAACCGGTTTCGAGA
 GATGACGGACTCCTCTCATATCCCCGTGTCAGACATGGTCATGTATGGCTACAGGAAGCA
 GTTCGAGGCCCAACGCTGGCTGAAGGCTTCTCTGCCATCCTGGAGATCCCGTTCGGCT
 ATGGGTGGAGCCGAGGCTGGGGCGGCTGTACTGCCAGTTCTCCGAGGGCTGAGCCCCGCC
 CAGCTCCCCTCCACAATAAACGCTGTTTCTCTTGAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAAAA

Restriction Sites: ECoRI-NOT

ACCN: NM_007254

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_007254.2](#), [NP_009185.2](#)

RefSeq Size: 1745 bp

RefSeq ORF: 1566 bp

Locus ID: 11284

UniProt ID: [Q96T60](#)

Cytogenetics: 19q13.33

Protein Families: Druggable Genome, Phosphatase

Gene Summary: This locus represents a gene involved in DNA repair. In response to ionizing radiation or oxidative damage, the protein encoded by this locus catalyzes 5' phosphorylation and 3' dephosphorylation of nucleic acids. Mutations at this locus have been associated with microcephaly, seizures, and developmental delay.[provided by RefSeq, Sep 2010]