

Product datasheet for **SC337270**

PIF1 (NM_001286497) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIF1 (NM_001286497) Human Untagged Clone
Tag:	Tag Free
Symbol:	PIF1
Synonyms:	C15orf20; PIF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001286497, the custom clone sequence may differ by one or more nucleotides

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ATGCTCTCGGGCATAGAGGCGGGCAGGGGAATATGAGGACTCGGAGCTGCGGTGCCGCTGGCTGTGG
AGGAGCTGAGCCCGGGCGGGCAGCCGCGAAGGCCAGGCCCTGCGCACCCGGAGCTGAGCCTGGGTCG
CAACGAGCGCCGCGAGTTGATGCTGCGGCTGCAAGCGCCAGGGCCCGGGGCGCCGCGCTGCTTTCTC
CTGCGCGCCGCGCGCTCTTACGCGTTTTGCGCGAGGCCGGGCGCAGCACCTGCGGCTCCCCGCCACG
ACACCCCGGGGCGGGCGCAGTGCACTGCTGCTCGGACTGCCCCAGACCCCTGCGCCGCTTCT
GCGCACATTGCGCCTCAAGCTGGCTGCGGCCCGGGTCCCGGGCCGGCTCCGCCGAGCGCAGCTGCTG
GGCCCGGGCCCGGACTTCGTACCATCAGCCCTGTGCAGCCGAGGAGCGGGCTCAGGGCGGCCA
CCCGGTTCCGGACTACGCTGGTGAAGCGCCTGTGGAGCCCGAGGCTGGGGCCGAGCCTAGCACAGA
AGCCCCAAGGTGGCCCTGCCTGTGAAGAGGCTGAGCTTGCCCTCCACCAAGCCACAGCTTTCTGAGGAA
CAGGCTGTGTGCTGAGGGCCGCTGAAAGGCCAGAGCATCTTCTTCACTGGGAGTGCAGGAACAGGGA
AGTCATATCTGCTAAAGCGAATCTGGGCTCACTGCCCCACAGGCACTGTGGCCACTGCCAGCACTGG
GGTGGCAGCCTGCCACATCGGGGACACCCTCCATGCCTTTGCAAGCATCGGCTCAGGCCAGGCTCCT
CTAGCCAGTGTGTGGCCCTGGCCAAAGGCCAGGCGTGCAGGAGGCTGGCTGAACTGCCAGCGTTGG
TCATTGACGAGATCTCAATGGTGGAGGCAGACCTGTTTGACAACTGGAGGCCGTGGCCAGAGCTGTCCG
GCAGCAGAAACAAGCCATTCGGAGGGATCCAGCTCATCATCTGTGGGGACTTTCTGCAGCTGCCACCTGTG
ACCAAGGGCTCCCAGCCCCACGGTTCTGCTTCCAGTCCAAGAGCTGGAAGAGGTGTGTGCCAGTGACCC
TGGAGCTGACCAAGGTGTGGAGGCAGGCAGACCAGACCTTCATCTCTACTGCAGGCCGTGAGGCTAGG
CAGGTGTTGAGATGAGGTGACCCGCCAGCTCCAGGCCACAGCTTCCACAAGGTGGGGCGAGATGGGATT
GTGGCCACGAGGCTCTGCACCCACAGGATGATGTGGCCCTACCAACGAGAGGGCGCTTCAGGAGCTGC
CAGGTAAGGTACACAGATTTGAGGCTATGGACAGCAACCCTGAGCTGGCCAGTACCCTGGATGCCAGTG
TCTGTGAGCCAGCTCCTCAACTAAAGCTGGGGGCCAGGTGATGCTGGTGAAAAAATTATCGGTGCT
CGGGCCCTGGTGAATGGTGCCCGAGGGTGGTAGTTGGGTTGAGGCAGAAAGGAGAGGGCTACCCAGG
TGCGGTTCTGTGTGGAGTCACTGAGGTCAACGCTGACCGTGGACGGTGCAGGCCACCGGGGCCA
GCTCCTCAGTCGGCAGCAGCTGCCCTCCAGTGGCTGGGCGATGTCCATCCACAAGAGCCAAGGCATG
ACCCTGGATTGTGTGGAGATTTCTTGGCCGTGTGTTGCCAGTGGCCAGGCCATGTGCCCCTTTCTC
GGCCCGCAGCCTGCAGGGCCTACGTGTGCTGGACTTTGACCCATGGCGTTTCGCTGTGACCCCGTGT
GCTGCACTTCTATGCCACCTGCGGCGGGCAGGAGCCTCAGTCTGGCTGCAGAAGGAGAGGCAATGAA
GACAGGTGCTCCGGAAGCAGCATCAGGGCTCTTGAGGGGACTGGTGGGACTCAGGCTGGGTGCAGCCT
CCAAACAGAGAACGGAACCTAGGTGTGTCTTACAGCTAGGCCAGCCTAGCCCAGCCAGAAACAC
CCTTACAGCCTAACCAAGAACATAAGCTGCAAAATGTGACCCATATTTAAGCTGCTTTTCAGGGG
ATAAATAGTGTGGGACATGA
    
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Restriction Sites: SgfI-RsrII

ACCN: NM_001286497

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_001286497.1](#), [NP_001273426.1](#)

RefSeq Size: 2285 bp

RefSeq ORF: 2124 bp

Locus ID: 80119

UniProt ID: [Q9H611](#)

Cytogenetics: 15q22.31

Gene Summary: This gene encodes a DNA-dependent adenosine triphosphate (ATP)-metabolizing enzyme that functions as a 5' to 3' DNA helicase. The encoded protein can resolve G-quadruplex structures and RNA-DNA hybrids at the ends of chromosomes. It also prevents telomere elongation by inhibiting the actions of telomerase. Alternative splicing and the use of alternative start codons results in multiple isoforms that are differentially localized to either the mitochondria or the nucleus. [provided by RefSeq, Nov 2013]
Transcript Variant: This variant (3) uses an alternate splice site in the 5' UTR and contains an alternate exon structure in the 3' coding region, which results in a frameshift, compared to variant 1. The encoded isoform (b, also known as beta) has a distinct C-terminus and is longer than isoform a. This isoform localizes to the mitochondria (PMID: 17827721).