

## Product datasheet for **RC238998**

### PIF1 (NM\_001286499) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PIF1 (NM_001286499) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PIF1
Synonyms:	C15orf20; PIF
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC238998 representing NM\_001286499  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGCGGCTGCAAGCGCCAGGGCCCCGGGGCGGCCGCGCTGCTTTCTCTGCGCGCCGCGCGCTCT  
 TCACGCGTTTCGCCGAGGCCGGGCGCAGCACCCCTGCGGCTCCCCGCCACGACACCCCGGGGCCGCGC  
 AGTGCAGCTGCTGCTCTCGACTGCCCCAGACCCGCTGCGCCGCTTCTGCGCACATTGCGCCTCAAG  
 CTGGTTCGCGCCCGGGTCCCGGGCCGGCTCCGCCGAGCGCAGCTGCTGGCCCGCGGCCCGCGACT  
 TCGTACCATCAGCCCTGTGAGCCGAGGAGCGGGCGCTCAGGGCGGCCACCCGGGTTCCGGACTAC  
 GCTGGTGAAGCGCCTGTGGAGCCCCAGGCTGGGGCCGAGCCTAGCACAGAAGCCCCAAGGTGGCCCTG  
 CCTGTGAAGAGGCTGAGCTTGCCTCCACCAAGCCACAGCTTTCTGAGGAACAGGCTGCTGTGCTGAGGG  
 CCGTCTGAAAGGCCAGAGCATTTCTTACTGGGAGTGCAGGAACAGGGAAGTCATATCTGCTAAAGCG  
 AATCCTGGGCTACTGCCCCACAGGCACTGTGGCCACTGCCAGCACTGGGTGGCAGCCTGCCACATC  
 GGGGGACACCCCTCCATGCCTTTCAGGCATCGGCTCAGGCCAGGCTCCTCTAGCCAGTGTGTGGCC  
 TGGCCAAAGGCCAGGCTGCGGCAGGGCTGGCTGAACTGCCAGCGGTTGGTCATTGACGAGATCTCAAT  
 GGTGGAGGCAGACCTGTTTGACAACTGGAGGCCGTGGCCAGAGCTGTCCGCGCAGACAAGCCATTC  
 GGAGGGATCCAGCTCATCATCTGTGGGACTTTCTGCAGCTGCCACCTGTGACCAAGGGCTCCAGCCCC  
 CACGGTTCTGCTTCCAGTCCAAGAGCTGGAAGAGGTGTGTGCCAGTGACCCTGGAGTGACCAAGGTGTG  
 GAGGCAGGCAGACCAGACCTTCATCTCTACTGCAGGCCGTGAGGCTAGGCAGGTGTTCCAGATGAGGTG  
 ACCCCAGCTCCAGGCCACAGCTTCCACAAGGTGGGCGAGATGGGATTGTGGCCACGAGGCTCTGCA  
 CCCACAGGATGATGTGCCCTCACCAAGGAGGCGGCTTCCAGGAGTCCAGGTAAGGTACACAGATT  
 TGAGGCTATGGACAGCAACCCTGAGCTGGCCAGTACCCTGGATGCCAGTGTCTGTTAGCCAGCTCCTT  
 CAACTAAAGCTGGGGGCCAGGTGATGCTGGTGA AAAACTTATCGGTGTCTCGGGCCCTGGTGAATGGTG  
 CCCGAGGGGTGGTAGTTGGGTTGAGGCAGAAGGGAGAGGGCTACCCAGGTGCGGTTCTGTGTGGAGT  
 CACTGAGGTATCCACGCTGACCCTGGACGGTGCAGGCCACCGGGGGCCAGCTCCTCAGTCGGCAGCAG  
 CTGCCCTCCAGCTGGCTGGCGATGTCCATCCACAAGAGCCAAAGCATGACCTGGATTGTGTGGAGA  
 TTTCTCTGGGCCGTGTGTTGCCAGTGGCCAGGCTATGTGCCCTTTCTCGGGCCCGCAGCCTGCAGGG  
 CCTACGTGTGCTGGACTTGGACCCATGGCGTTCGCTGTGACCCCGTGTGCTGCACTTCTATGCCACC  
 CTGCGGGGGGCAGGAGCCTCAGTCTGGAGTCCCAGATGATGATGAGGCAGCCTCAGACCAGGAGAACA  
 TGGACCAATCCTC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238998 representing NM\_001286499  
 Red=Cloning site Green=Tags(s)

MLRLQAPGPAGRPRCFPLRAARLFTRFAEAGRSTLRLPAHDTPGAGAVQLLLSDCPPDRLRRFLRTLRLK  
 LAAAPGPGPASARAQLLGP RPDFVTISP VQPEERRLRAATRVPTTLVKRPVEPQAGAEPSTEAPRWPL  
 PVKRLSLPSTKPQLSEEQA AVLRAVLKGQSIFFTGSAGTGKSYLLKRILGSLPPTGTVATASTGVAACHI  
 GGTTLHAFAGIGSQAPLAQCVALAQRPGVRQWLNQRLVIDEISMVEADLFDKLEAVARAVRQNKPF  
 GGIQLIICGDFLQLPPVTKGSQPPRFQSKSWKRCVPVTELETKVWRQADQTFISLLQAVRLGRCSDEV  
 TRQLQATASHKVGRDGI VATRLCTHQDDVALTNERRLQELPGKVHRFEAMDSNPELASTLDAQPVSQLL  
 QLKLGAVMLVKNLSVSRGLVNGARGVVVGFEAEGRGLPQVRF LCGVTEVIHADRWTVQATGGQLLSRQQ  
 LPLQLAWAMSIHKSQGMTLDCVEISLGRVFASTGQAYVALSRARSLQGLRVLDFDPMVRCRPRVLFHYAT  
 LRRGRSLSPDDDEAASDQENMDPIL

**SGP**TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-RsrII



<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001286499.2</a>
<b>RefSeq Size:</b>	2718 bp
<b>RefSeq ORF:</b>	1767 bp
<b>Locus ID:</b>	80119
<b>UniProt ID:</b>	<a href="#">Q9H611</a>
<b>Cytogenetics:</b>	15q22.31
<b>MW:</b>	64.3 kDa
<b>Gene Summary:</b>	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]