

## Product datasheet for **RC234982**

### PIWIL3 (NM\_001255975) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PIWIL3 (NM_001255975) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PIWIL3
Synonyms:	HIWI3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC234982 representing NM\_001255975  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCTGGTAGGGCAAGGACTCGCGCCGAGGCAGAGCCCGCCGAGGGAGAGCTACCAACAAGAGGCAC  
 CTGGGGGACCCAGAGCACCTGGATCAGCTACAACCCAGGAGCCCTCAGTTGCAGTCGACACCCCGGCC  
 GCTGCAGGAGGAAGTCCCAGTGGTTAGACCTCTGCAGCCAAGAGCAGCAAGAGGAGGAGCAGGAGGAGGA  
 GCACAGTCTCAAGGGGTGAAGAACCTGGACCTGAGGCTGGGTTGCATACAGCGCCCTTGCAGGAGAGAA  
 GGATTGGTGGAGTTTTTCAAGACCTGGTGGTGAACACCAGGCAAGATATGAAGCATGTTAAAGACTCAA  
 AACAGGTTCAAGGGTACAGTGGTACAGCTACTCGCAACCACTCCGAGTGATATCTCGTCTCAGTGG  
 GTTGCATATAAATAACAACGTTGACTACAAACCAGACATAGAAGATGGAATCTCCGTACAATTTTACTTG  
 ATCAACATAGAAGAAATTTGGAGAGCGCCATATATTTGATGAAACTCTTTATTATTATCTCGGCCACT  
 AAAAGAGCGGAGAGTGGAAATGGTTGAGCACAACCAAGACAAAACATCGTGAAGATTACAGTTGAGTTT  
 TCCAAAGAACTACGCCCACGTCCGAGATTGCCACGCTATTACAACATTCTCTTTAGAGAAGACTTTCA  
 AGCTGCTGGATTTGAACAAGTTGGTCGCAACTATTATACCAAAAAGAAGGCCATTACAGTTATACCGTCA  
 TGGTACCAGTTTGGAAATCTGGCTTGGTTATGTTACTTCTGTTCTTCAATACGAAAACAGCATTACCCCTC  
 TGTGCCGATGTGAGCCACAACTGCTCCGAATAGAAACTGCTTATGATTTCAAAAGAGAACATCTGCC  
 AGGCCAGACAGGAAACATCCGAGAGGAAGTAACTAATAAATTAATTGGATCAATTTGTTCTGACAAAATA  
 CAACAACAAAACCTACAGAGTAGATGATATTGATTGGAAGCAGAATCCTGAAGACACATTTAACAAATCA  
 GATGGCAGCAAAATCACCTATATAGACTACTACAGGCAGCAACATAAAGAAATTTGCACAGTGAAGAAAC  
 AGCCACTTTTGGTCAGCCAGGCAGATGGAAAAGGGCCTAACGGGTACACAACGTAACCTATCCTGCT  
 GATTCCTCAGCTGTCCACATGACAGGTTCTAACAGATGAAATATGTAAAGATTATAGCATTGTGAAAGAA  
 TTGGCTAAACATACAAGATTGAGTCCAAGAAGAAGGCATCATACATTAAGAATTATCATCAATACTCTAC  
 AAGATAATAAAAAAGTACGAGAGTTACTTCAACTCTGGGATTTGAAATTTGATACCAATTTTTTGTCCGT  
 CCCGGGAAGATTTTGAACACGCAACATCGTGCAAGGCAGAAGAATGGTTAAAGCCAATTCACAAGGA  
 GACTGGTCAAGAGAAATAAGAGAATTACCTTACTTAATGCAATGCCACTACATAGTTGGCTCATACTCT  
 ATAGCAGGAGCAGTCACAGAGAAGCCATGTCCTTAAAGGGTCATCTACAGAGTGCACAGCCCCCATGGG  
 CATAACTATGAAACCAGCAGAAATGATTGAAGTAGATGGTATGCTAACTCTATATAGACACATTACGG  
 AAATATACTAGACCAACTGCAGATGGTATTTGTATCTGCCAATGATGACAAACGTAGATATGACA  
 GCATAAAAAGATACCTATGTACCAAAATGCCAATTCGAAGCCAGTGTGTGGTGAAGAAAGACCTTAGAAAA  
 AGTCCAGGCAAGGACCATCGTCCCAAGATTGCCAGCAGATGAATTGCAAGATGGGAGGAGCCCTCTGG  
 AAGGTGGAGACAGACGTACAAAGAACAATGTTCTGTTGGCATTGATTGTTCCACGATATCGTAAATCGAC  
 AGAAATCAATAGCAGGATTTGTTGCAAGTACCAATGCTGAATTAACAAAGTGGTACTCTCAATGTGTCAT  
 CCAGAAAACAGGAGAAGAGCTTGTGAAAGAGCTGGAGATCTGCTTGAAGCTGCCCTGGATGTCTGGTGT  
 AAAAACGAATCATCGATGCCACATTCTGTTATTGTGTATCGGGATGGAGTGGGAGATGGTCAGCTCAAG  
 CATTGCTTGACCATGAAGCGAAAAAGATGTCGACCTACTTAAAAACCATCTCTCCTAACAAATTTCACTCT  
 AGCTTTTCAATTGTGGTGAAGAAACGAATAAACACTAGATTTTTTCTTAAACATGGAAGCAATTTTCAAAAT  
 CCACCTCAGGAACAGTTATTGATGTAGAGTTGACTAGGAATGAATGGTATGACTTTTTTATTGTGAGTC  
 AGTCTGTGCAAGATGGGACTGTTACCCCACTCATTATAACGTCTATGACACGATTGGCTTGAGCCC  
 AGATACAGTACAGCGTTTAAACATATTGTCTATGCCACATGTATTATAATTTGCCAGGCATCATCCGAGTT  
 CCAGCGCCTTGCCACTATGCCACAAGCTGGCTTACCTCGTGGGCAGTCCATTCACCAGGAACCGAATC  
 GTTCTTGTCAACTCGTCTTTTTACCTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234982 representing NM\_001255975  
 Red=Cloning site Green=Tags(s)

MPGRARTRARGRARRRESYQQEAPGGPRAPGSATTQEPPLQSTPRPLQEEVPVVRPLQPRAARGGAGGG  
 AQSQGVKEPGPEAGLHTAPLQERRIGGVFQDLVFNTRQDMKHVKDSKTGSEGTVVQLLANHFRVISRPQW  
 VAYKYNVDYKPDIEDGNLRTILLDQHRRKFGERHIFDGNLLLLSRPLKERRVEWLSTTKDKNIVKITVEF  
 SKELTPTSPDCLRYYNILFRRTFKLLDFEQVGRNYYTKKAIQLYRHGTSLEIWLGYVTVSVLQYENSITL  
 CADVSHKLLRIETAYDFIKRTSAQAQTGNIREEVTKLIGSIVLTKYNNKTYRVDDIDWKQNPEDTFNKS  
 DGSKITYIDYRQHQKEIVTVKKQPLLVSQGRWKKGLTGTQREPILLIPQLCHMTGLTDEICKDYISIVKE  
 LAKHTRLSPRRRHHTLKEFINTLQDNKKVRELLQLWDLKFDTNFLSVPGRVLKNANIVQGRRMVKANSQG  
 DWSREIRELPLLNAMPLHSWLILYSRSSHREAMSLKGLQSVTAPMGITMKAEMIEVDGDANSYIDTLR  
 KYTRPTLMVICILPNDDKRRYDSIKRYLCTKCPISQCVVKKTLEKVQARTIVTKIAQQMCKMGGALW  
 KVETDVQRTMFGIDCFHDI VNRQKSIAGFVASTNAELTKWYSQCVIQKTGEELVKELEICLKAALDVWC  
 KNESSMPHSVIVYRDGVGDGQLQALLDHEAKMSTYLKTI SPNFTLAFIVVKKRINTRFFLKHGSNFQN  
 PPPGTVIDVELTRNEWYDFFIVSQSVQDGTVTPHYNVIYDTIGLSPDTVQRLTYCLCHMYNLPGIIRV  
 PAPCHYAHKLAYLVGQSIHQEPNRSLSRFLFYL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

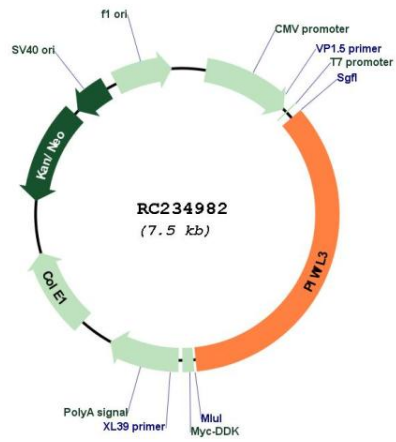
SgfI-MluI

Cloning Scheme:



<b>ACCN:</b>	NM_001255975
<b>ORF Size:</b>	2619 bp
<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_001255975.1</a> , <a href="#">NP_001242904.1</a>
<b>RefSeq Size:</b>	3481 bp
<b>RefSeq ORF:</b>	2622 bp
<b>Locus ID:</b>	440822
<b>Cytogenetics:</b>	22q11.23
<b>Protein Pathways:</b>	Dorso-ventral axis formation
<b>MW:</b>	100.6 kDa
<b>Gene Summary:</b>	This gene encodes a member of the PIWI subfamily of Argonaute family proteins. This subfamily of proteins contains a PAZ domain, found in proteins involved in RNA-mediated gene silencing, and a C-terminal Piwi domain. The encoded protein is thought to function in maintenance of germline cells. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]

Product images:



Circular map for RC234982