

## Product datasheet for **RG234982**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PIWIL3 (NM_001255975) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PIWIL3
Synonyms:	HIWI3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG234982 representing NM\_001255975  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCTGGTAGGGCAAGGACTCGCGCCGAGGCAGAGCCCGCCGAGGGAGAGCTACCAACAAGAGGCAC  
 CTGGGGGACCCAGAGCACCTGGATCAGCTACAACCCAGGAGCCCTCAGTTGCAGTCGACACCCCGGCC  
 GCTGCAGGAGGAAGTCCCAGTGGTTAGACCTCTGCAGCCAAGAGCAGCAAGAGGAGGAGCAGGAGGAGGA  
 GCACAGTCTCAAGGGGTGAAGAACCTGGACCTGAGGCTGGGTTGCATACAGCGCCCTTGCAGGAGAGAA  
 GGATTGGTGGAGTTTTTCAAGACCTGGTGGTGAACACCAGGCAAGATATGAAGCATGTTAAAGACTCAA  
 AACAGTTTCAGAGGGTACAGTGGTACAGCTACTCGCAACCCTCCGAGTGATATCTCGTCTCAGTGG  
 GTTGCATATAAATAACAACGTTGACTACAAACCAGACATAGAAGATGGAATCTCCGTACAATTTTACTTG  
 ATCAACATAGAAGGAAATTTGGAGAGCGCCATATATTTGATGGAACTCTTTATTATTATCTCGGCCACT  
 AAAAGAGCGGAGAGTGGAAATGGTTGAGCACAACCAAGACAAAAACATCGTGAAGATTACAGTTGAGTTT  
 TCCAAAGAACTACGCCCACGTCCGAGATTGCCACGCTATTACAACATTCTCTTTAGAGAAGACTTTCA  
 AGCTGCTGGATTTGAACAAGTTGGTCGCAACTATTATACCAAAAAGAAGGCCATTACAGTTATACCGTCA  
 TGGTACCAGTTTGGAAATCTGGCTTGGTTATGTTACTTCTGTTCTTCAATACGAAAACAGCATTACCCCTC  
 TGTGCCGATGTGAGCCACAACTGCTCCGAATAGAAAAGTCTTATGATTTCAAAAGAGAACATCTGCC  
 AGGCCAGACAGGAAACATCCGAGAGGAAGTAACTAATAAATTAATTGGATCAATTTGTTCTGACAAAATA  
 CAACAACAAAACCTACAGAGTAGATGATATTGATTGGAAGCAGAATCCTGAAGACACATTTAACAAATCA  
 GATGGCAGCAAAATCACCTATATAGACTACTACAGGCAGCAACATAAAGAAATTTGCACAGTGAAGAAAC  
 AGCCACTTTTGGTCAGCCAGGCAGATGGAAAAGGGCCTAACGGGTACACAAGTGAACCTATCTCTGCT  
 GATTCCTCAGCTGTGCCACATGACAGGTTCTAACAGATGAAATATGTAAAGATTATAGCATTGTGAAAGAA  
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 AAGATAATAAAAAAGTACGAGAGTTACTTCAACTCTGGGATTTGAAATTTGATACCAATTTTTTGTCCGT  
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 GACTGGTCAAGAGAAATAAGAGAATTACCTTACTTAATGCAATGCCACTACATAGTTGGCTCATACTCT  
 ATAGCAGGAGCAGTCACAGAGAAGCCATGTCCTTAAAGGGTCATCTACAGAGTGCACAGCCCCCATGGG  
 CATAACTATGAAACCAGCAGAAATGATTGAAGTAGATGGTATGCTAACTCTATATAGACACATTACGG  
 AAATATACTAGACCAACTGCAGATGGTATTTGTATCTCGCCAAATGATGACAAACGTAGATATGACA  
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 AAGGTGGAGACAGACGTACAAAGAACAATGTTCTGTTGGCATTGATTGTTCCACGATATCGTAAATCGAC  
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 AGCTTTTCAATTGTTGGAAGAAACGAATAAACACTAGATTTTTTTCTTAAACATGGAAGCAATTTTCAAAAT  
 CCACCTCAGGAACAGTTATTGATGTAGAGTTGACTAGGAATGAATGGTATGACTTTTTTTATTGTGAGTC  
 AGTCTGTGCAAGATGGGACTGTTACCCCACTCATTATAACGTCTATGACACGATTGGCTTGAGCCC  
 AGATACAGTACAGCGTTTAAACATATTGTCTATGCCACATGTATTATAATTTGCCAGGCATCATCCGAGTT  
 CCAGCGCCTTGCCACTATGCCACAAGCTGGCTTACCTCGTGGGGCAGTCCATTACCAGGAACCGAATC  
 GTTCTTGTCAACTCGTCTCTTTTACCTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG234982 representing NM\_001255975  
 Red=Cloning site Green=Tags(s)

MPGRARTRARGRARRRESYQQEAPGGPRAPGSATTQEPPLQSTPRPLQEEVPVVRPLQPRAARGGAGGG  
 AQSQGVKEPGPEAGLHTAPLQERRIGGVFQDLVVNTRQDMKHVKDSKTGSEGTVVQLLANHFRVISRPQW  
 VAYKYNVDYKPDIEDGNLRTILLDQHRRKFGERHIFDGNLLLLSRPLKERRVEWLSTTKDKNIVKITVEF  
 SKELTPTSPDCLRYYNILFRRTFKLLDFEQVGRNYYTKKKAIDL YRHGTSLEIWLGYVTVSVLQYENSITL  
 CADVSHKLLRIETAYDFIKRTSAQAQTGNIREEVNKLIGSIVLTKYNNKTYRVDDIDWKQNPEDTFNKS  
 DGSKITYIDYRQHQKEIVTVKKQPLLVSQGRWKKGLTGTQREPILLIPQLCHMTGLTDEICKDYISIVKE  
 LAKHTRLSPRRRHHTLKEFINTLQDNKKVRELLQLWDLKFDTNFLSVPGRVLKNANIVQGRRMVKANSQG  
 DWSREIRELPLLNAMPLHSWLILYSRSSHREAMSLKGHLQSVTAPMGITMKAEMIEVDGDANSYIDTLR  
 KYTRPTLQMVICILPNDDKRRYDSIKRYLCTKCPISQCVVKKTLEKVQARTIVTKIAQQMNCMMGGALW  
 KVETDVQRTMFGIDCFHDI VNRQKSIAGFVASTNAELTKWYSQCVIQKTGEELVKELEICLKAALDVWC  
 KNESSMPHSVIVYRDGVGDGQLQALLDHEAKMSTYLKTI SPNNFTLAFIVVKKRINTRFFLKHGSNFQN  
 PPPGTVIDVELTRNEWYDFFIVSQSVQDGTVTPHYNVIYDTIGLSPDTVQRLTYCLCHMYNLPGIIRV  
 PAPCHYAHKLAYLVGQSIHQEPNRSLSRRLFYL

TRTRPLE - GFP Tag - V

**Restriction Sites:**

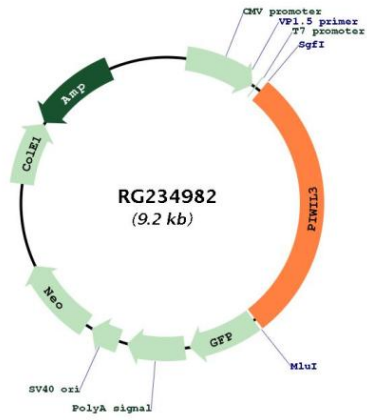
SgfI-MluI

**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>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 RG234982