

Product datasheet for **SC301309**

PIWIL3 (NM_001008496) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIWIL3 (NM_001008496) Human Untagged Clone
Tag:	Tag Free
Symbol:	PIWIL3
Synonyms:	HIWI3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



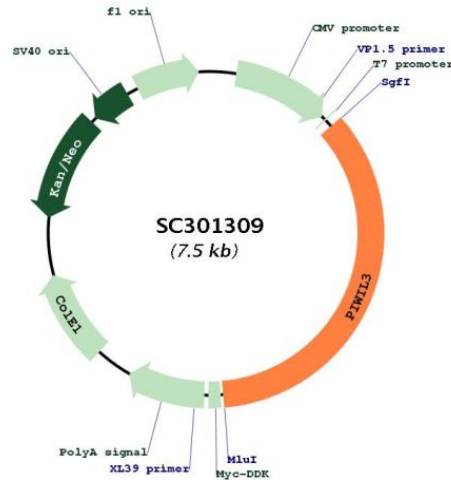
[View online »](#)

Fully Sequenced ORF: >SC301309 representing NM_001008496.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCCTGGTAGGGCAAGGACTCGCGCCGAGGCAGAGCCCGCCGAGGGAGAGCTACCAACAAGAGGCA
CCTGGGGGACCCAGAGCACCTGGATCAGCTACAACCCAGGAGCCCCCTCAGTTGCAGTCGACACCCCGG
CCGCTGCAGGAGGAAGTCCCAGTGGTTAGACCTCTGCAGCCAAGAGCAGCAAGAGGAGGAGCAGGAGGA
GGAGCACAGTCTCAAGGGGTGAAGGAACCTGGACCTGAGGCTGGGTTGCATACAGCGCCCTTGCAGGAG
AGAAGGATTGGTGGAGTTTTTCAAGACCTGGTGGTGAACACCAGGCAAGATATGAAGCATGTTAAAGAC
TCAAAAACAGGTTTCAAGGGTACAGTGGTACAGCTACTCGCCAACCACTCCGAGTGATATCTCGTCCCT
CAGTGGGTTGCATATAAATAACACGTTGACTACAAACCAGACATAGAAGATGAAATCTCCGTACAATT
TACTTGATCAACATAGAAGGAAATTTGGAGAGCGCCATATATTTGATGGAACTCTTTATTATTATCT
CGGCCACTAAAAGAGCGGAGAGTGAATGGTTGAGCACAACCAAGACAAAACATCGTGAAGATTACA
GTTGAGTTTTCCAAAGAACTCACGCCAGTTCGCCAGATTGCCTACGCTATTACAACATTCTCTTTAGA
AGAACTTTCAAGCTGCTGGATTTGAACAAGTTGGTCGCAACTATTATACAAAAAGAAGGCCATTACAG
TTATACCGTCATGGTACCAAGTTTGGAAATCTGGCTTGGTTATGTTACTTCTGTTCTTCAATACGAAAAC
AGCATTACCCTCTGTGCCGATGTGAGCCACAACTGCTCCGAATAGAAACTGCTTATGATTTTATAAAG
AGAATCTGCCAGGCCAGACAGGAAACATCCGAGAGGAAGTAACTAATAAATTAATTGGATCAATT
GTTCTGACAAAATACAACAACAAAACCTACAGAGTAGATGATATTGATTGGAAGCAGAATCCTGAAGAC
ACATTTAACAAATCAGATGGCAGCAAAATCACCTATATAGACTACTACAGGCAGCAACATAAAGAAAT
GTCACAGTGAAGAAACAGCCACTTTTGGTCAGCCAGGGCAGATGGAAAAAGGGCCTAACGGGTACACAA
CGTGAACCTATCCTGCTGATTCTCAGCTGTGCCACATGACAGGTCTAACAGATGAAATATGTAAGAT
TATAGCATTGTGAAAGAATTGGCTAAACATACAAGATTGAGTCCAAGAAGAAGGCATCATACATTAATA
GAATTCATCAATACTCTACAAGATAATAAAAAAGTACGAGAGTTACTTCAACTCTGGGATTTGAAATTT
GATACCAATTTTTTGTCCGTCCCGGGAAGATTTTAAAAACGCAAAACATCGTGCAAGGCAGAAGAATG
GTTAAAGCCAATTCACAAGGAGACTGGTCAAGAGAAAATAAGAGAATTACCCCTACTTAATGCAATGCCA
CTACATAGTTGGCTCATACTCTATAGCAGGAGCAGTCACAGAGAAGCCATGTCCTTAAAGGGTCATCTA
CAGAGTGCACAGCCCCATGGGCATAACTATGAAACCAGCAGAAATGATTGAAGTAGATGGTGATGCT
AACTCCTATATAGACACATTACGGAAATATACTAGACCAACACTGCAGATGGGAATGTCATGTTTGCTG
GTTTTCAAGGTGATTTGTATCCTGCCCAATGATGACAAACGTAGATATGACAGCATAAAAAGATACCTA
TGTACCAATGCCCAATTCAGCCAGTGTGTGGTAAAAAGACCTTAGAAAAAGTCCAGGCAAGGACC
ATCGTCACCAAGATTGCCAGCAGATGAATTGCAAGATGGGAGGAGCCCTCTGGAAGGTGGAGACAGAC
GTACAAAGAAACAATGTTTCGTTGGCATTGATTGTTCCACGATATCGTAAATCGACAGAAATCAATAGCA
GGATTTGTTGCAAGTACCAATGCTGAATTAACAAAGTGGTACTCTCAATGTGTCATCCAGAAAACAGGA
GAAGAGCTTGAAAGAGCTGGAGATCTGCTTAAAGCTGCCCTGGATGTCTGGTGTAAAAACGAATCA
TCGATGCCACATTCTGTTATTGTGTATCGGGATGGAGTGGGAGATGGTCAGCTTCAAGCATTGCTTGAC
CATGAAGCGAAAAAGATGTCGACCTACTTAAAAACCATCTCTCTAACAATTTCACTCTAGCTTTTCAAT
GTGGTGAAGAAACGAATAAACACTAGATTTTTTCTTAAACATGGAAGCAATTTTCAAAATCCACCTCCA
GGAACAGTTATTGATGTAGAGTTGACTAGGAATGAATGGTATGACTTTTTTATTGTGAGTCAGTCTGTG
CAAGATGGGACTGTTACCCCACTCATTATAACGTCATCTATGACACGATTGGCTTGAGCCAGATACA
GTACAGCGTTTAAACATATTGTCTATGCCACATGTATTATAATTTGCCAGGCATCATCCGAGTTCCAGCG
CCTTGCCACTATGCCACAAGCTGGCTTACCTCGTGGGGCAGTCCATTACCAGGAACCGAATCGTTCC
TTGTCAACTCGTCTTTTTACCTTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_001008496

Insert Size: 2649 bp

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_001008496.3](#)

RefSeq Size: 3508 bp

RefSeq ORF: 2649 bp

Locus ID: 440822

UniProt ID: [Q7Z3Z3](#)

Cytogenetics: 22q11.23

Protein Pathways: Dorso-ventral axis formation

MW: 101.1 kDa

Gene Summary: 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]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longer protein (isoform 1).