OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC316969

PIWIL1 (NM_004764) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIWIL1 (NM_004764) Human Untagged Clone
Tag:	Tag Free
Symbol:	PIWIL1
Synonyms:	CT80.1; HIWI; MIWI; PIWI
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_004764 edited
GTTGGCCTCGGGCTGAGGTGCAAGGACCAGGACTAGGGCGAGGGCAGCGGTCCAAGAAAT
AGAAAACAATGACTGGGAGAGCCCGAGCCAGAGCCAGAGGAAGGGCCCGCGGTCAGGAGA
CAGCGCAGCTGGTGGGCTCCACTGCCAGTCAGCAACCTGGTTATATTCAGCCTAGGCCTC
AGCCGCCACCAGCAGAGGGGGAATTATTTGGCCGTGGACGGCAGAGAGGAACAGCAGGAG
GAACAGCCAAGTCACAAGGACTCCAGATATCTGCTGGATTTCAGGAGTTATCGTTAGCAG
AGAGAGGAGGTCGTCGTAGAGATTTTCATGATCTTGGTGTGAATACAAGGCAGAACCTAG
ACCATGTTAAAGAATCAAAAACAGGTTCTTCAGGCATTATAGTAAGGTTAAGCACTAACC
ATTTCCGGCTGACATCCCGTCCCCAGTGGGCCTTATATCAGTATCACATTGACTATAACC
CACTGATGGAAGCCAGAAGACTCCGTTCAGCTCTTCTTTTTCAACACGAAGATCTAATTG
GAAAGTGTCATGCTTTTGATGGAACGATATTATTTTTACCTAAAAGACTACAGCAAAAGG
TTACTGAAGTTTTTAGTAAGACCCGGAATGGAGAGGATGTGAGGATAACGATCACTTTAA
CAAATGAACTTCCACCTACATCACCAACTTGTTTGCAGTTCTATAATATTATTTTCAGGA
GGCTTTTGAAAATCATGAATTTGCAACAAATTGGACGAAATTATTATAACCCAAATGACC
CAATTGATATTCCAAGTCACAGGTTGGTGATTTGGCCTGGCTTCACTACTTCCATCCTTC
AGTATGAAAACAGCATCATGCTCTGCACTGACGTTAGCCATAAAGTCCTTCGAAGTGAGA
CTGTTTTGGATTTCATGTTCAACTTTTATCATCAGACAGAAGAACATAAATTTCAAGAAC
AAGTTTCCAAAGAACTAATAGGTTTAGTTGTTCTTACCAAGTATAACAATAAGACATACA
GAGTGGATGATATTGACTGGGACCAGAATCCCAAGAGCACCTTTAAGAAAGCCGACGGCT
CTGAAGTCAGCTTCTTAGAATACTACAGGAAGCAATACAACCAAGAGATCACCGACTTGA
AGCAGCCTGTCTTGGTCAGCCAGCCCAAGAGAAGGCGGGGCCCTGGGGGGACACTGCCAG
GGCCTGCCATGCTCATTCCTGAGCTCTGCTATCTTACAGGTCTAACTGATAAAATGCGTA
ATGATTTTAACGTGATGAAAGACTTAGCCGTTCATACAAGACTAACTCCAGAGCAAAGGC
AGCGTGAAGTGGGACGACTCATTGATTACATTCATAAAAACGATAATGTTCAAAGGGAGC
TTCGAGACTGGGGTTTGAGCTTTGATTCCAACTTACTGTCCTTCTCAGGAAGAATTTTGC
AAACAGAAAAGATTCACCAAGGTGGAAAAACATTTGATTACAATCCACAATTTGCAGATT
GGTCCAAAGAAACAAGAGGTGCACCATTAATTAGTGTTAATCCACTAGATAACTGGCTGT

View online »

TGATCTATACGCGAAGAAATTATGAAGCAGCCAATTCATTGATACAAAATCTATTTAAAG
TTACACCAGCCATGGGCATGCAAATGAAAAAAGCAATAATGATTGAAGTGGATGACAGAA
CTGAAGCCTACTTAAGAGTCTTACAGCAAAAGGTCACAGCAGACACCCAGATAGTTGTCT
GTCTGTTGTCAAGTAATCGGAAGGACAAATACGATGCTATTAAAAAATACCCGTGTACAG
ATTGCCCTACCCCAAGTCAGTGTGTGGTGGCCCGAACCTTAGGCAAACAGCAAACTGTCA
TGGCCATTGCTACAAAGATTGCCCTACAGATGAACTGCAAGATGGGAGGAGAGCTCTGGA
GGGTGGACATCCCCCTGAAGCTCGTGATGATCGTTGGCATCGATTGTTACCATGACATGA
CAGCTGGGCGGAGGTCAATCGCAGGATTTGTTGCCAGCATCAATGAAGGGATGACCCGCT
GGTTCTCACGCTGCATATTTCAGGATAGAGGACAGGAGCTGGTAGATGGGCTCAAAGTCT
GCCTGCAAGCGGCTCTGAGGGCTTGGAATAGCTGCAATGAGTACATGCCCAGCCGGATCA
TCGTGTACCGCGATGGCGTAGGAGACGGCCAGCTGAAAACACTGGTGAACTACGAAGTGC
CACAGTTTTTGGATTGTCTAAAATCCATTGGTAGAGGTTACAACCCTAGACTAACGGTAA
TTGTGGTGAAGAAAAGAGTGAACACCAGATTTTTTGCTCAGTCTGGAGGAAGACTTCAGA
ATCCACTTCCTGGAACAGTTATTGATGTAGAGGTTACCAGACCAGAATGGTATGACTTTT
TTATCGTGAGCCAGGCTGTGAGAAGTGGTAGTGTTTCTCCCACACATTACAATGTCATCT
ATGACAACAGCGGCCTGAAGCCAGACCACATACAGCGCTTGACCTACAAGCTGTGCCACA
TCTATTACAACTGGCCAGGTGTCATTCGTGTTCCTGCTCCTTGCCAGTACGCCCACAAGC
TGGCTTTTCTTGTTGGCCAGAGTATTCACAGAGAGCCAAATCTGTCACTGTCAAACCGCC
TTTACTACCTCTAACCTGCAGAAGACGATGCAGCCGCTTTTCTTTTTGAAATGACTTTGG
GATTTTTTTAAGCTTTTATTTACTTTTTTTTTAACTGTTATCTTTCTGGATGAAACTTGG
GAAGGGGATTAGGAGATCTAGCATTTTATTTCTAGCATTGCTATTCACCGGCTTCCTTAT
TTTATACGTAAAAATTAAGATTTTATATTTTATCTTCTTGTTTCTCATAGATATTTTGTG
AGCATTTTTTTGTTTATTTTGAAGAAATGTGGATAAGATACTTGGTAGTATAAAACAGAC
TCTCTGAGAGTATTTGAAATGTGTTTGGAGATTTACTTAAACGTACTTTCAGGAGTGAGC
AAGTCCTACTTATAAACCTATATTAACTTTATTTTTGAGATACCTGTTTTGAATTTAAAG
GAGATAAGAGGCGTAAAGTAGGATGCTCACTACAACCATAGGTGGGGTTTCAGCTCATAT
CTTAAAGATAAAAGGTACTATTATATAACCTATACACAAGATACAGGAGAAAATATGCTT
GATTTTTATTTGGCAGGGGGGCTAGGTTGTATGGGAGTAAAAAAAACATTGAAAATTTTT
AAATTGTCCAAAGAAACATTTTAAGACTCTTTAACAAAAAAGGCCATGAGTAAATCTCTA
TATTAACATTACTATTTATTTTGTTTTGGAACTGGGACATGATTCTATTTGTTATAAAAT
AAAATTGATGTGATTGTCAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004764 unedited
GGGTTCACATTTCTAAACGACTTATATAGGCGACCGCATAACTTCGTATAGCATACATTA
TACGAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTCGAGAGCGGGTTGGCC
TCGGGCTGAGGTGCAAGGACCAGGACTAGGGCGAGGGCAGCGGTCCAAGAAATAGAAAAC
AATGACTGGGAGAGCCCGAGCCAGAGCCAGAGGAAGGGCCCGCGGTCAGGAGACAGCGCA
GCTGGTGGGCTCCACTGCCAGTCAGCAACCTGGTTATATTCAGCCTAGGCCTCAGCCGCC
ACCAGCAGAGGGGGAATTATTTGGCCGTGGACGGCAGAGAGGAACAGCAGGAGGAACAGC
CAAGTCACAAGGACTCCAGATATCTGCTGGATTTCAGGAGTTATCGTTAGCAGAGAGAGG
AGGTCGTCGTAGAGATTTTCATGATCTTGGTGTGAATACAAGGCAGAACCTAGACCATGT
TAAAGAATCAAAAACAGGTTCTTCAGGCATTATAGTAAGGTTAAGCACTAACCATTTCCG
GCTGACATCCCGTCCCCAGTGGGCCTTATATCAGTATCACATTGACTATAACCCACTGAT
GGAAGCCAGAAGACTCCGTTCAGCTCTTCTTTTTCAACACGAAGATCTAATTGGAAAGTG
TCATGCTTTTGATGGAACGATATTATTTTTACCTAAAAGACTACAGCAAAAGGTTACTGA
AGTTTTTAGTAAGACCCCGAATGGAGAGGATGTGAGGATAACGATCACTTTAACAAATGA
ACTTCCACCTACATCACCAACTTGTTTGCAGGTCTATAATATTATTTTTCAGGAAGCTTT
TTGAAATCATGAATTTGCCACANATTGGACGAAATTATTATTACCCAAATGACCCAATTG
ATTTTCCAGTC

Restriction Sites: NotI-NotI

ACCN: NM_004764

Insert Size:	3400 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:	The ORF of this clone has been fully sequenced and found to contain 2 SNPs compared with NM_004764.3.
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_004764.3, NP_004755.2
RefSeq Size:	3416 bp
RefSeq ORF:	2586 bp
Locus ID:	9271
UniProt ID:	Q96J94
Cytogenetics:	12q24.33
Protein Pathways:	Dorso-ventral axis formation
Gene Summary:	This gene encodes a member of the PIWI subfamily of Argonaute proteins, evolutionarily conserved proteins containing both PAZ and Piwi motifs that play important roles in stem cell self-renewal, RNA silencing, and translational regulation in diverse organisms. The encoded protein may play a role as an intrinsic regulator of the self-renewal capacity of germline and hematopoietic stem cells. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2010] Transcript Variant: This variant (1) encodes the longer isoform (1).