

Datasheet for ABIN4942847

Human PIWIL3 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

Overview

Quantity:	10 µg
Gene:	PIWIL3
Species:	Human
Fusion tag:	DYKDDDDK Tag
Insert:	ORF
Vector:	Mammalian Expression Vector
Application:	Protein Expression (PEXP)

Product Details

Purpose:	Expression/transfection ready cDNA ORF clone of Human PIWIL3 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	2649 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGCCTGGTA GGGCAAGGAC TCGCGCCCGA GGCAGAGCCC GCCGCAGGGA GAGCTACCAA CAAGAGGCAC CTGGGGGACC CAGAGCACCT GGATCAGCTA CAACCCAGGA GCCCCCTCAG TTGCAGTCGA CACCCCGGCC GCTGCAGGAG GAAGTCCCAG TGGTTAGACC TCTGCAGCCA AGAGCAGCAA GAGGAGGAGC AGGAGGAGGA GCACAGTCTC AAGGGGTGAA GGAACCTGGA CCTGAGGCTG GGTTGCATAC AGCGCCCTTG CAGGAGAGAA GGATTGGTGG AGTTTTTCAA

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GACCTGGTGG TGAACACCAG GCAAGATATG AAGCATGTTA AAGACTCAAA AACAGGTTCA
GAGGGTACAG TGGTACAGCT ACTCGCCAAC CACTTCCGAG TGATATCTCG TCCTCAGTGG
GTTGCATATA AATACAACGT TGACTIONAAA CCAGACATAG AAGATGGAAA TCTCCGTACA
ATTTTACTTG ATCAACATAG AAGGAAATTT GGAGAGCGCC ATATATTTGA TGGAAACTCT
TTATTATTAT CTCGGCCACT AAAAGAGCGG AGAGTGGAAT GGTTGAGCAC AACCAAAGAC
AAAAACATCG TGAAGATTAC AGTTGAGTTT TCCAAAGAAC TCACGCCACAC GTCGCCAGAT
TGCCTACGCT ATTACAACAT TCTCTTTAGA AGAACTTTCA AGCTGCTGGA TTTTGAACAA
GTTGGTCGCA ACTATTATAC CAAAAAGAAG GCCATTCAGT TATACCGTCA TGGTACCAGT
TTGGAAATCT GGCTTGTTA TGTTACTTCT GTTCTTCAAT ACGAAAACAG CATTACCCTC
TGTGCCGATG TGAGCCACAA ACTGCTCCGA ATAGAACTG CTTATGATTT CATAAAGAGA
ACATCTGCCC AGGCCCAGAC AGGAAACATC CGAGAGGAAG TAACTAATAA ATTAATTGGA
TCAATTGTTC TGACAAAATA CAACAACAAA ACCTACAGAG TAGATGATAT TGATTGGAAG
CAGAATCCTG AAGACACATT TAACAAATCA GATGGCAGCA AAATCACCTA TATAGACTAC
TACAGGCAGC AACATAAAGA AATTGTCACA GTGAAGAAAC AGCCACTTTT GGTGAGCCAG
GGCAGATGGA AAAAGGGCCT AACGGGTACA CAACGTGAAC CTATCCTGCT GATTCCCTCAG
CTGTGCCACA TGACAGGTCT AACAGATGAA ATATGTAAAG ATTATAGCAT TGTGAAAGAA
TTGGCTAAAC ATACAAGATT GAGTCCAAGA AGAAGGCATC ATACATTAAG AGAATTCATC
AATACTCTAC AAGATAATAA AAAAGTACGA GAGTTACTTC AACTCTGGGA TTTGAAATTT
GATACCAATT TTTTGTCCGT CCCGGGAAGA GTTTTGAAGAA ACGCAAACAT CGTGCAAGGC
AGAAGAATGG TTAAAGCCAA TTCACAAGGA GACTGGTCAA GAGAAATAAG AGAATTACCC
TTACTTAATG CAATGCCACT ACATAGTTGG CTCATACTCT ATAGCAGGAG CAGTCACAGA
GAAGCCATGT CCTTAAAGGG TCATCTACAG AGTGTCACAG CCCCATGGG CATAACTATG
AAACCAGCAG AAATGATTGA AGTAGATGGT GATGCTAACT CCTATATAGA CACATTACGG
AAATATACTA GACCAACACT GCAGATGGGA ATGTCATGTT TGCTGGTTTT CAAGGTGATT
TGTATCCTGC CCAATGATGA CAAACGTAGA TATGACAGCA TAAAAAGATA CCTATGTACC
AAATGCCCAA TTCCAAGCCA GTGTGTGGTG AAAAAGACCT TAGAAAAAGT CCAGGCAAGG
ACCATCGTCA CCAAGATTGC CCAGCAGATG AATTGCAAGA TGGGAGGAGC CCTCTGGAAG
GTGGAGACAG ACGTACAAAG AACAAATGTTT GTTGGCATTG ATTGTTTCCA CGATATCGTA
AATCGACAGA AATCAATAGC AGGATTTGTT GCAAGTACCA ATGCTGAATT AACAAAGTGG
TACTCTCAAT GTGTCATCCA GAAAACAGGA GAAGAGCTTG TGAAAGAGCT GGAGATCTGC
TTGAAAGCTG CCCTGGATGT CTGGTGTAAA AACGAATCAT CGATGCCACA TTCTGTTATT
GTGTATCGGG ATGGAGTGGG AGATGGTCAG CTTCAAGCAT TGCTTGACCA TGAAGCGAAA
AAGATGTGCA CCTACTTAAA AACCATCTCT CCTAACAAATT TCACTCTAGC TTTTATTGTG
GTGAAGAAAC GAATAAACAC TAGATTTTTT CTTAAACATG GAAGCAATTT TCAAAATCCA
CCTCCAGGAA CAGTTATTGA TGTAGAGTTG ACTAGGAATG AATGGTATGA CTTTTTTATT
GTGAGTCAGT CTGTGCAAGA TGGGACTGTT ACCCCCACTC ATTATAACGT CATCTATGAC

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Product Details

ACGATTGGCT TGAGCCCAGA TACAGTACAG CGTTTAACAT ATTGTCTATG CCACATGTAT
TATAATTTGC CAGGCATCAT CCGAGTTCCA GCGCCTTGCC ACTATGCCCA CAAGCTGGCT
TACCTCGTGG GGCAGTCCAT TCACCAGGAA CCGAATCGTT CCTTGTCAAC TCGTCTCTTT
TACCTTTGA

Specificity: ORF Insert Method: CloneEZ® Seamless cloning technology, recombination-based cloning technology

Characteristics: Gene cDNA ORF clone sequences were retrieved from the NCBI Reference Sequence Database (RefSeq). These sequences represent the protein coding region of the gene cDNA ORF which is encoded by the open reading frame (ORF) sequence.

Sequencing Primer:

- Forward primer: 5'-TAATACGACTCACTATAGGG-3'
- Reverse primer: 5'-CCTCGACTGTGCCTTCTA-3'

Grade: End-sequenced

Components: The GenEZ ORF clone is delivered as 10 µg of lyophilized plasmid DNA in a vial.

Target Details

Gene: PIWIL3

Alternative Name: PIWIL3 ([PIWIL3 Products](#))

Background: 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].

Gene ID: 440822

NCBI Accession: [NM_001008496](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Storage: RT/-20 °C

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Handling

- Storage Comment:
- Keep the vial sealed and store at -20°C for long-term storage.
 - Before use, centrifuge the vial at 6,000 g x g for 1 minute at 4°C.
 - Open the lid and add 100 µl (or other volume depending on your desired final concentration) of distilled water (or TE buffer) to dissolve the DNA.
 - If necessary, heat the solution at 50°C for 15 minutes to dissolve the DNA.
 - Close the lid and vortex the vial for 1 minute.
 - Aliquot the dissolved plasmid DNA and store in small aliquots at -20°C.
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Expiry Date: 12 months

Publications

Product cited in: Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)