

Product datasheet for **RR206214**

Piwil1 (NM_001108853) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Piwil1 (NM_001108853) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Piwil1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR206214 representing NM_001108853
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACTGGACGAGCCGAGCCCGGGCCCGTGGCAGGGCCCGAGGTCAGGAGACGGTGCAGCATGTTGGGG
 CTGCTGCAAGCCAGCAACCTGGGTACATCCCGCGAGACCCAGCAGTCGCCACAGAGGGGACTTGGT
 TGGCCGAGGACGACAGAGGGGAATGGTAGTCGGAGCCACGTCCAAGTCACAAGAAGTGCAGATCTCAGCC
 GGGTTTCAGGAGCTGTCCTGGCAGAGAGAGGAGGGCGTCGCCGAGACTTCCATGACCTTGGTGTGAACA
 CCAGACAGAACCTTGACCATGTCAAAGAGTCAAAGACAGGCTCCTCTGGCATCATTGTGAAGCTGAGCAC
 CAACCACTTCCGGCTGACCTCGCGCCACAGTGGGCCCTGTACCAGTACCACATTGACTATAACCCCTG
 ATGGAGGCCCGCAGGCTGCGCTCTGCCCTGCTCTCCAGCACGAAGACCTCATTGGAAGGTGTCATGCTT
 TCGACGGGACAATATTGTTTTACCTAAGAGACTACAGCACAAGGTCACGGAAGTATTAGTCAGACTCG
 GAATGGGGAACAGTGGGATTACCATCACCTGACCAACGAGCTGCCGCCACCTACCCACCTGCCTG
 CAGTTCTATAACATCATCTTCAGGAGGCTCTTGAAAATCATGAATTTGCAACAAATTGGACGGAATTATT
 ACAACCCAAAGTGACCCGATTGATATTCCAAATCACAGGTTGGTGTACTGGCCCGGCTTACCACCTCCAT
 ACTTCAATATGAGAACACATCATGCTTTGCACAGACGTACGCCACAAGGTCCTCCGAGCGAGACCGTT
 CTAGACTTCATGTTCAATCTGTACCAGCAGACGGAGGAGCACAAGTTCAGGAGCAAGTGTCCAAGGAGC
 TCATAGGCCTCATCGTCTCACCAAGTACAACAACAAGACCTACAGGGTGGATGACATCGACTGGGACCA
 GAATCCAAAGAGCACCTCAAGAAGGCAGATGGCTCGGAGGTGAGTTCCTGGAGTACTACAGGAAGCAA
 TACAACAGGAGATCACAGACTGAAGCAGCCAGTGTAGTGAGCCAGCCCAAGCGGAGGAGAGGCCCTG
 GCGGACCCCTGCCTGGCCAGCCATGCTATCCAGAGCTCTGCTACCTCACAGGCTGACTGATAAAAT
 GCGCAATGATTTCAACGTGATGAAGGACCTGGCGGTGCACACAGGCTGACCCCTGAGCAGCGGCAGCGG
 GAGGTGGGCCGCTCATCGACTACATCCACAAGGATGACAATGTGCAGAGAGAGTTCGAGACTGGGGCC
 TAAGCTTCGATTGAACTTGCTGTCTTCTCAGGAAGAATCTTACAATCCGAGAAGATCCACCAGGGTGG
 AAAGACGTTTGATTACAACCCACAATTTGCAGACTGGTCCAAAGAAACGAGAGGCGCGCCGCTGATCAGC
 GTGAAGCCGTTGGATAACTGGCTGCTGATCTATACCCGAGGAATATGAAGCGGCAACTCGTGTATAC
 AGAACCTGTTCAAAGTACTCCGGCCATGGGCATCCAGATGAAAAAGGCCATCATGATCGAGGTGGACGA
 CAGAACAGAAGCTTATCTGAGAGCCTTGACGAGAAAGGTGACATCAGACACTCAGATAGTTGTCTGTCTC
 TTGTCAAGTAATCGGAAGGACAAGTATGATGCCATCAAGAAGTATTTGTGCACAGACTGCCCCACCCAA
 GTCAGTGTGGTGGCCGAGCCTGGGCAAGCAGCAAACAGTCATGGCCATTGCCACCAAGATCGCCCT
 GCAGATGAACTGCAAGATGGGAGGCGAGCTCTGGCGGGTGGACATGCCTCTGAAGCTGGCAATGATCGTG
 GGCATTGACTGTTACCATGACACCACAGCTGGGCGGAGGTCCATCGCAGGATTTCGTTGCCAGCATCAATG
 AAGGGATGACCCGTTGGTTCTCCCGCTGCGCTTTTCAGGACCGTGGACAGGAGCTGGTAGACGGTCTGAA
 GGTGTGCTTCAAGCTGCCCTGAGGGCTTGAGTGGCTGCAATGAATATATGCCAGCCGAGTCAATTGTG
 TACCGAGACGGTGTGGGGACGGGACGCTGAAGACCCTGGTCAATTATGAGGTCCACAGTTCCTAGACT
 GCCTCAAGTCAGTCGGGAGAGGTTACAACCAAGACTGACCGTATCGTAGTGAAGAAGCGAGTCAATGC
 CAGGTTTTTTGCTCAGTCTGGGGAAAGACTTCAGAACCCTCTTCGGGGACAGTATCGATGTGGAAGTC
 ACCAGACCAGAGTGGTATGACTTTTTTCATCGTGAGCCAGGCAAGTGAAGAAGTGGGAGTGTGTCCCAACAC
 ACTACAATGTCATCTACGACAGCAGTGGCCTGAAGCCGACCACATCCAGCGGCTGACGTACAAGCTGTG
 TCACGTGTAACAATTGGCCTGGAGTCAATCCAGTCCCTGCACCTTGCCAGTATGCACACAAGCTGGCC
 TTCCTCGTGGCCAGAGCATCCACAGAGAGCCGAACCTCTCCCTGTCCAACCGTCTACTACTCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR206214 representing NM_001108853
Red=Cloning site Green=Tags(s)

MTGRARARARGRARGQETVQHVGAASQQPGYIPPRPQQSPTGDLVGRGRQGMVVGATSKSQELQISA
GFQELSLAERGGRRRDFHDLGVNTRQNL DHVKESKTGSSGIIVKLSTNHFRLTSRPQWALYQYHIDYNPL
MEARRLSALLFQHEDLIGRCHAFDGTILFLPKRLQHKVTEVFSQTRNGEHVRLITLTNELPPTSPTCL
QFYNIIFRRLKIMNLQQIGRNYNPSDPIDIPNHRLVIWPGFTTSILQYENNIMLCTDVSHKVL RSETV
LDFMFNL YQQTEEHKFQEVSKEIIGLIVLTKYNNKTYRVDDIDWDQNPSTFKKADGSEVSFLEYRQK
YNQEITDLKQPVLVSQPKRRRGGTLPGPAMLIPELCYLTGLTDKMRNDFNVMKDLAVHTRLTPEQRQR
EVGRLIDYIHKDDNVQRELRDWGLSFDSNLLSFSGRILQSEKIHQGGKTFDYNPQFADWSKETRGAPLIS
VKPLDNWLLIYTRRNYEAANSLIQNLFKVTPAMGIQMKKAIMEVDDRTEAYLRALQQKVTSDTQIVVCL
LSSNRKDYDAIKKYLCTDCPTPSQCVVARTLGKQQTVMATKIALQMNCKMGGELWRVDMPLKLAMIV
GIDCYHDTTAGRRSIAGFVASINEGMTRWFRCVFDQDRGQELVDGLKVCLQAALRAWSGCNEYMP SRVIV
YRDGVGDGQLKTLVNYEVPQFLDCLKSVGRGYNPRLTVIVVKKRVNARFFAQSGGRLQNPLPGTVIDVEV
TRPEWYDFFIVSQAVRSGSVSPHYNVIYDSSGLKPDHIQRLTYKLCHVYYNWP G VIRVPAPCQYAHKLA
FLVQSQSIHREP NLSLSNRLYYL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

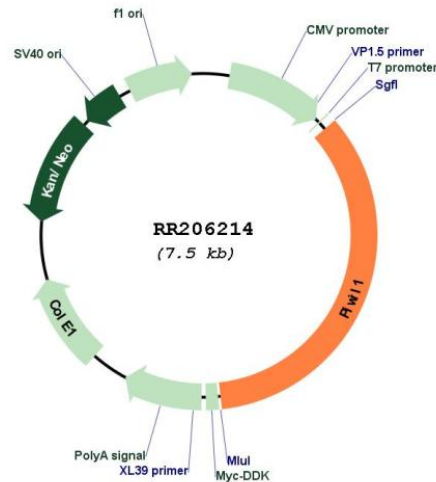
Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001108853

ORF Size: 2586 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001108853.1](#), [NP_001102323.1](#)

RefSeq Size: 4005 bp

RefSeq ORF: 2589 bp

Locus ID: 363912

Cytogenetics: 12q13

MW: 98.6 kDa