

Product datasheet for **RR206306**

Pax8 (NM_031141) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pax8 (NM_031141) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pax8
Synonyms:	MGC93376
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR206306 representing NM_031141
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCTCACAACTCGATCAGATCCGGCCACGGAGGGCTGAATCAGTTAGGAGGGCTTTTGTGAATGGCA
 GGCTCTGCCAGAAGTTGTCCGGCAACGCATTGTGGACTTGGCCACCAGGGAGTGAGACCCTGTGATAT
 CTCTCGCCAGCTTCGTGTAGCCATGGCTGTGTAAAGCAAGATCCTTGGCAGGTAACGAGACTGGCAGC
 ATCCGGCTGGAGTGATAGGGGGCTCCAAGCCCAAGGTGGCCACCCCAAGGTGGTGGAGAAGATAGGGG
 ACTACAAGCGGCAGAACCCTACCATGTTTGCTTGGGAGATCCGGGACCGGCTCTTGGCAGAAGGCGTTT
 TGACAATGACTGTGCCAGTGTGAGTCCATCAACAGAATCATCCGGACCAAAGTGCAGCAGCCATTC
 AACCTCCCATGGACAGCTGCGTGGCCACCAAATCTCTGAGCCAGGACACACTGATCCCCAGCTCAG
 CTGTCACACCCAGAGTACCCAGTCGGATTCTTGGGCTCTACCTACTCTATCAACGGGCTCCTAGG
 AATTGCTCAGCCTGGCAGTGACAACAAGAGAAAGATGGATGATAGTGACCAGGACAGTTGTCGACTGAGC
 ATCGATCCCAGAGCAGCAGTAGTGGTCCCTCGAAAGCATCTTCGTACAGACACCTTCGGGACGACCCACC
 TCGAGCCGCTCGAGTGCCCGTTTGGAGCGCAGCATTACCCGGAGGCTATGCCTCCCCAGCCACACCAA
 AGGCGAGCAGGGGCTATACCCACTGCCCTTACTCAACAGTACCCTGGATGACGAAAGGCCACCCTGACA
 CCTTCAAATACACCTCTGGGACGCAACCTCTCAACTACCAGACCTACCCTGTGGTGGCAGATCCTCATT
 CACCCTACGCCATAAAGCAGGAAACCCAGAGCTCTCCAGTCTAGTCCACCCCTTCTCTTTATCTAG
 CTCCGCTTTTGGATCTGCAGCAAGTCGGCTCTGGGGCCAGCAGGTGCTCGGTCCCACCCCTCAAT
 GCCTTTTCCATGCTGCCTCCGTGTATGGCAGTTCACGGGCCAGGCCCTCCTCTCAGGGCAGAGATGG
 TGGGGCCACGCTGCCTGGATACCCACCCACATCCCCACAGTGGACAGGGCAGCTATGCCTCTTCCG
 TATTGCAGGCATGGTGGCAGGAAGTGAGTATTCTGGCAATGCCTACAGCCACACCCCGTACGCCTCTAC
 AGTGAGGCTGGCGCTTCCCAACTCCAGCCTGCTGAGTCCCCATATTATTACAGCTCTACAACAAGGC
 CAAGCGCACCGCCACCTCTGCCACGGCTTTGACCATCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR206306 representing NM_031141
 Red=Cloning site Green=Tags(s)

MPHNSIRSGHGGLNQLGGAFVNGRPLPEVVRQRIVDLAHQGVVPCDISRQLRVSHGCVSKILGRYYETGS
 IRPGVIGGSKPKVATPKVVEKIGDYKRQNPMTFAWEIRDRLLAEGVCDNDTVPSVSSINRIIRTKVQQPF
 NLPMDSCVATKSLSPGHTLIPSSAVTPPEPQSDSLGSTYSINGLLGIAQPGSDNKRKMDSDQDSCRLS
 IDSQSSSGPRKHLRTDTFGQHLEPLECPFERQHYPEAYASPSHTKGEQGLYPLLLNSTLDDGKATLT
 PSNTPLGRNLSTHQYYPVADPHSPYAIAKQETPELSSSSSTPSSLSSSAFLDLQQVSGGPAGASVPPFN
 AFSHAASVYQGFTGQALLSGREVMGPTLPGYPPHIPTSGQGSYASSAIAGMVAGSEYSNGNAYSHTPYASY
 SEAWRFPNSSLLSSPYYSSTTRPSAPPTSATAFDHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

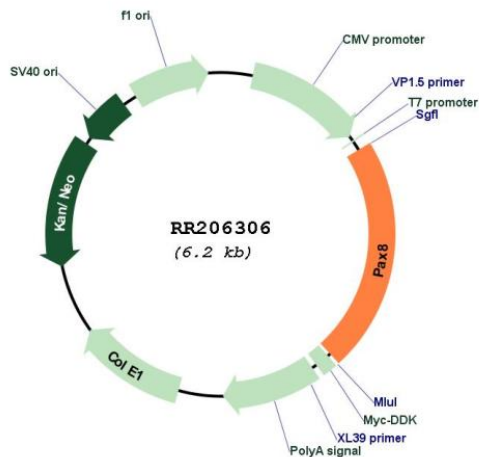
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_031141

ORF Size: 1371 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_031141.2](#), [NP_112403.2](#)

RefSeq Size: 2517 bp

RefSeq ORF: 1374 bp

Locus ID: 81819

UniProt ID: [P51974](#)

Cytogenetics: 3p13

MW: 48.8 kDa

Gene Summary: acts as a redox regulated transcriptional activator [RGD, Feb 2006]