

Product datasheet for **RR208036**

Pax4 (NM_031799) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pax4 (NM_031799) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pax4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR208036 representing NM_031799 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGCAGGACGGTCTCAGCAGTGTGAATCAGCTGGGGGACTCTTTGTGAATGGCCGGCCCTTCCAC
TGGACACCCGACAGCAGATTGTGCAGCTAGCGATAAGAGGGATGCGACCCTGTGACATCTCACGGAGCCT
TAAGGTATCTAACGGCTGTGTGAGTAAGATCCTAGGACGCTACTACCGCACAGGAGTCTTGGAAACCAAG
GGTATTGGGGGAAGCAAACACGCTCTGGCCACACCTGCTGTGGTGGCTCGAATTGCCAGCTAAAGGATG
AGTATCCAGCTCTTTTTGCCTGGGAGATCCAACGCCAGCTTTGTGCTGAAGGGCTTTGTACCCAGGACAA
GGCTCCCAGTGTATCCTCTATCAATCGAGTCCTTCGGGCACTACAGGAAGACCAGAGGTTACACTGGACA
CAACTTAGATCTCCAGCTGTTTTGGCTCCAGCTTTCCTAGTCCCACAGTAACTGTGAGGCTCCCCGAG
GTCCCCACCCGGGACCAGCCACAGGAATCGGACTATCTTCTCCCGGGCAAGCTGAGGCACTGGAGAA
AGAGTTCCAGCGTGGGAGTATCCAGATTCAGTTGTCCGTGGAAGCTGGCTGCTGCCACCTCTCTGCCT
GAAGACACAGTGAGGGTCTGGTTTTCCAACAGAAGAGCCAAATGGCGCAGACAAGAGAAGTTGAAATGGG
AAACACAGATGCCAGGTCTTCTCAGGACCTGATGGTACCAAAGATTCTCCAGGGATCATCTCTGCACA
GCAGTCCCTGGCAGTGTACCCTCAGCAGCCCTGCCTGTGCTGGAACAATTGAATCCTTCTCTGTCTCAG
CTGTGCTGGGGGAGTACCAGACAGATGTTCCAGTGACACCACATCCCAAGCCTGTCTCAACCCCTACT
GGGAATGCCACTCCCTCCTTCTGTGGCTTCTTCTCATAACATGGAATTTGCCTGGCCCTGCCTCACCAC
CCATCCTGTGCATCATCTGATTGGAGGCCAGGACAAGGCCATCAACCTATTACTTACACTGGCCA

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR208036 representing NM_031799
 Red=Cloning site Green=Tags(s)

MQQDGLSSVNQLGGLFVNGRPLPLDTRQQIVQLAIRGMRPCDISRSLKVSNGCVSKILGRYYRTGVLEPK
 GIGGSKPRLATPAVVARIAQLKDEYPALFAWEIQRQLCAEGLCTQDKAPSVSSINRVLRALQEDQRLHWT
 QLRSPAVLAPALPSPHSNCEAPRGPHPGTSHRNRTIFSPGQAEALEKEFORGQYPPDSVVRGKLAATSLP
 EDTVRVWF SNRRAKWRRQEKLKWETQMPGASQDLMVPKDSPGIISAQQSPGSPVSAALPVLEQLNPSFCQ
 LCWGAVPDRCSSDTTSQAQLQPYWECHSLLLPVASSSYMEFAWPCLTTHPVHHLIGGPGQAPSTYYLHWP

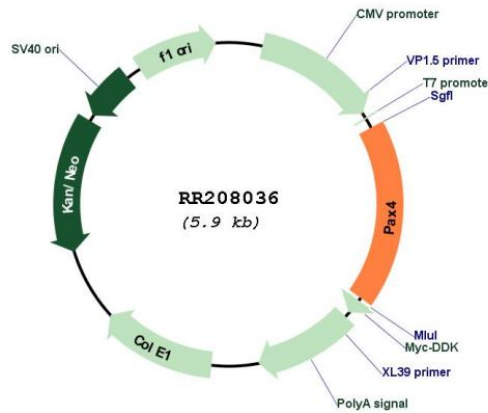
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_031799

ORF Size:	1047 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:	<ol style="list-style-type: none">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_031799.1 , NP_113987.1
RefSeq Size:	1101 bp
RefSeq ORF:	1050 bp
Locus ID:	83630
UniProt ID:	O88436
Cytogenetics:	4q22
MW:	38.5 kDa
Gene Summary:	mouse homolog acts as a transcriptional repressor; may suppress alpha cell differentiation and facilitate beta cell differentiation during pancreatic development [RGD, Feb 2006]