

Product datasheet for **RR207068**

Pax2 (NM_001106361) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pax2 (NM_001106361) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pax2
Synonyms:	Pax-2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR207068 representing NM_001106361 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATATGCACTGCAAAGCAGACCCCTTCTCCGCGATGCACCGGCACGGGGTGTGAACCAGCTCGGGG
GGGTGTTTGTGAACGGCCGCCCTACCGACGTGGTGAAGCAGCGCATCGTGGAGCTGGCCACCAGGG
TGTGCGGCCCTGTGACATCTCCCGCAGCTGCGGGTCAGCCATGGCTGTGTGAGCAAAATCTGGGCAGG
TACTACGAGACTGGCAGCATCAAGCCCGGAGTGATTGGTGGCTCCAAGCCAAGGTGGCAACGCCAAAG
TGGTGGACAAGATTGCTGAATACAAGCGACAGAACCCGACTATGTTCCGCTGGGAGATCCGGGACAGGCT
GCTAGCTGAGGGCATCTGCGACAATGATACAGTCCCAGCGTCTCATCCATCAACAGGATCATCCGGACC
AAAGTTCAGCAGCCTTCCACCCAACGCCGGATGGGGCAGGGACAGGAGTGACTGCCCTGGCCACACCA
TCGTTCCAGCACGGCCTCCCTCCTGTTTCCAGCGCCTTAACGACCCAGTGGGATCCTACTCCATCAA
CGGGATCCTGGGGATTCTCGCTCCAACGGTGAGAAGAGGAAACGAGAGGAAGTCGAGGTATACACTGAT
CCTGCCACATTAGAGGAGGTGGAGTTTGCATCTGGTCTGGACTTTAAGAGATGTGCCGAGGGCTCTG
TCCCTAATGGAGACTCCAGAGTGGTGTGGACAGTTTCCGGAAGCACCTGCGAGCCGACACCTTACCCCA
GCAGCAGCTGGAAGCTTTGGATCGAGTCTTTGAGCGTCCTTCTATCCCGATGTCTTCCAAGCATCAGAG
CACATCAAATCAGAACAGGGGAATGAATACTCTCTCCAGCCCTGACCCCTGGGCTTGATGAAGTCAAGT
CCAGTCTATCTGCATCTACCAACCCTGAGCTGGGCAGCAATGTGTGAGGCACACAGAGCTACCCCGTCTG
GACCGGTCTGATATGGCGAGCACCCTACCTGGTTACCCCTCATGTGCCCCCACTGGCCAGGGA
AGCTACCTACCTCCACCCTGGCAGGAATGGTGCCTGGGAGCGAGTTCTCAGGCAACCCATACAGCCATC
CCCAGTACACCGCTACAATGAGGCTTGGAGATTCAGCAACCCCGCTTACTAAGTCCCTTATTATTA
TAGTGCCGCCCCCGGGCTCCGCCCTGCCGCTGCTGCCGCTGCCTATGACCGCCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR207068 representing NM_001106361
Red=Cloning site Green=Tags(s)

MDMHCKADPF SAMHRHGGV NQLGGV FVNGRPLDPVVRQRIVELAHQGV RPCDISRQLRVSHGCVSKILGR
 YYETGSIKPGVIGGSKPKVATPKVVDKIAEYKRQNPMTFAWEIRDRLLAEGICDNDTPVSVSSINRIIRT
 KVQQPFHPTPDGAGTGTAPGHTIVPSTASPPVSSASNDPVGSYINGILGIPRSNGEKRRKREEVEVYTD
 PAHIRGGGGLHLVWTLRDVSEGSVPNGDSQSGVDSLRLKHLRADFTQQQLEALDRVFERPSYPDFVQASE
 HIKSEQGNEYSLPALTPGLDEVKSSLSASTNPELGSNVSGTQTYPVVTGRDMASSTLPGYPPHVPPTGQG
 SYPTSTLAGMVPGSEFSGNPYSHPQYTA YNEAWRFSNPALLSSPYYSAA PRGSAPAAAAAYDRH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

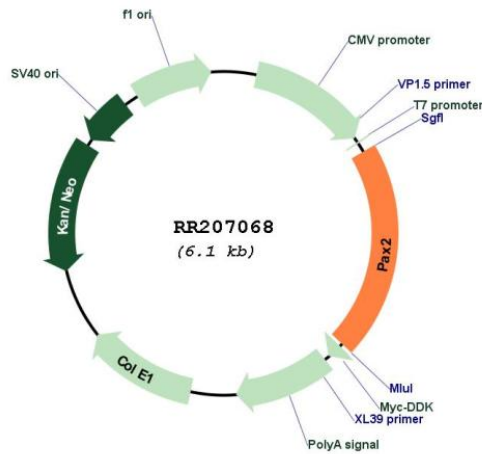
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001106361

ORF Size:	1248 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_001106361.1 , NP_001099831.1
RefSeq Size:	1400 bp
RefSeq ORF:	1251 bp
Locus ID:	293992
Cytogenetics:	1q54
MW:	44.7 kDa