

Product datasheet for MR227386

Pax2 (NM_011037) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pax2 (NM_011037) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Pax2
Synonyms: Opdc; Pax-2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR227386 representing NM_011037
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGATATGCACTGCAAAGCAGACCCCTTCTCCGCGATGCACCCAGGGCACGGGGGTGTGAACCAGCTCG
 GGGGGGTGTTGTGAACGGCCGGCCCTACCCGACGTGGTGAGGCAGCGCATCGTGGAGCTGGCCACCA
 GGGTGTGCGGCCCTGTGACATCTCCCGCAGCTGCGGGTCAAGCCATGGCTGTGTCAGCAAATCCTGGG
 AGGTACTACGAGACTGGCAGCATCAAGCCCGGAGTGATTGGTGGCTCCAAGCCCAAGGTGGCAACGCCCA
 AAGTGGTGGACAAGATTGCCGAATACAAGCGACAGAACCAGACTATGTTTCGCTGGGAGATCCGTGACAG
 GCTGCTAGCCGAGGGCATCTGCGATAATGACACAGTTCACAGTGTCTCATCCATCAACAGGATCATCCGG
 ACCAAAGTTCAGCAGCCTTCCACCCAACGCCGGATGGGGCAGGGACAGGAGTGACTGCCCCCGGCCACA
 CCATCGTTCAGCAGCGCCTCCCTCCTGTTCCAGCGCCTCTAACGACCCAGTGGGATCCTACTCCAT
 CAACGGGATCCTGGGATTCTCGCTCCAACGGTGAGAAGAGGAAACCGAGGAAGATGTGTCTGAGGGC
 TCTGTCCCTAATGGAGACTCCCAGAGTGGTGTGGACAGTTTGGGAAGCACCTGCGAGCCGACACCTTCA
 CCCAGCAGCAGCTGGAAGCTCTGGATCGAGTCTTTGAGCGTCTTCTATCCCGATGTCTCCAGGCATC
 AGAGCACATCAAATCAGAACAGGGGAATGAATACTCTCTCCAGCCCTGACCCCTGGGCTTGATGAAGTC
 AAGTCCAGTCTATCTGCATCGGCCAACCTGAGCTGGGCAGCAATGTGTCAGGCACAGACGTACCCCG
 TTGTGACCGTCTGATATGACGAGCACCCTACTACCTGGTTACCCCCCTCATGTGCCCCCACTGGCCA
 GGAAGCTACCTACCTCACCTGGCAGGAATGGTGCCTGGGAGCGAGTTCTCAGGCAACCCATACAGC
 CATCCCCAGTACCCGCTACAATGAGGCTTGGAGATTCAGCAACCCCGCCTTACTAAGTCCCCTTATT
 ATTATAGTGCCGCCCCCGGGCTCCGCCCTGCCGCTGCTGCCGCTGCCTATGACCGCCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR227386 representing NM_011037
Red=Cloning site Green=Tags(s)

MDMHCKADPF SAMHPGHGGVNQLGGVFNVRPLPDVVRQRIVELAHQGVRPCDISRQLRVSHGCVSKILG
 RYYETGSIKPGVIGGSKPKVATPKVVDKIAEYKRQNPTMFAWEIRDRLLAEGICDNDTPSVSSINRIIR
 TKVQQPFHPTPDGAGTGVTAPGHTIVPSTASPPVSSASNDPVGYSINGILGIPRSNGEKRKREEDVSEG
 SVPNGDSQSGVDSL RKHLRADTF TQQQLEALDRVFERPSYPDFVQASEHIKSEQGNEYSLPALTPGLDEV
 KSSL SASANPELGSNVSGTQTPVVTGRDMTSTTLPGYPPHVPPTGQGSYPTSTLAGMVPGEFSGNPYS
 HPQYTA YNEAWRFSNPALLSSPYYYSAAPRGSAPAAAAAAYDRH

TRTRPLEQKLISEEDLAANDILDYKDDDDKVK

Chromatograms: https://cdn.origene.com/chromatograms/mm9033_g03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_011037

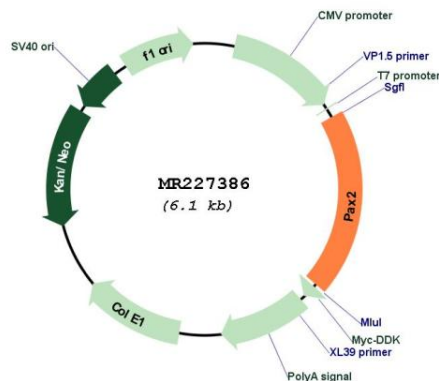
ORF Size: 1182 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_011037.5
RefSeq Size:	1251 bp
RefSeq ORF:	1185 bp
Locus ID:	18504
UniProt ID:	P32114
Cytogenetics:	19 38.09 cM
MW:	42.6 kDa
Gene Summary:	Transcription factor that may have a role in kidney cell differentiation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR227386