

Product datasheet for SC327905

PAX1 (NM_006192) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAX1 (NM_006192) Human Untagged Clone
Tag:	Tag Free
Symbol:	PAX1
Synonyms:	HUP48; OFC2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_006192 edited

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GCCCTTTATGGAGCAGACGTATGGCGAGGTGAACCAAGCTGGGCGGTGTGTTTCGTCAACGG
CCGCCCCCTGCCAACGCCATCCGCTTGCGCATTGTGGAGCTGGCGCAGCTGGGCATCCG
ACCCTGTGACATCAGTCGGCAGCTCCGCGTATCCACGGCTGCGTGAGCAAGATCCTGGC
GCGCTACAACGAGACCGGCTCCATTCTGCCCGGGGCCATCGGGGGAGCAAGCCCCGCGT
CACCACCTCCCAACGTGGTCAAGCACATCCGGGACTACAAGCAAGGAGACCCTGGCATCTT
TGCCTGGGAGATCCGCGACCGGCTGCTGGCCGACGGCGTCTGTGACAAGTACAATGTGCC
TTCGGTGAGCTCCATCAGCCGCATCCTGCGCAACAAGATCGGCAGCCTGGCGCAGCCCGG
ACCGTACGAGGCAAGTAAGCAGCCGCCGTCGCAGCCTACGCTGCCCTACAACCACATCTA
CCAGTACCCCTACCCAGTCCCGTGTGCGCCACGGGCGCCAAGATGGGCAGCCACCCCGG
GGTCCCGGGCACGGCGGGCCACGTCAGCATCCCGCGCTCATGGCCCTCGGCACACTCGGT
CAGCAACATCCTGGGCATCCGGACGTTTATGGAGCAAACAGGGGCCCTGGCTGGGAGCGA
AGGCACCGCTTACTCTCCCAAGATGGAAGACTGGGCCGGCGTGAACCGCACGGCCTTCCC
CGCCACCCCCGCAAGTGAATGGGCTAGAGAAACCTGCCTTAGAGGCAGACATTAAATACAC
TCAGTCGGCTCCACCCTCTCTGCCGTGGGCGGCTTTCTCCCCGCTGCGCTACCCGGC
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GTGGCCGCTGCGCAAGTCTCTCTGCGCCCCCGGGGCCGGCGTAGCTGTGCATGG
CGGGGAAGTTCGCGGCAGCAATGACCTTCAAGCATCCCAGCCGAGAAGGAAGCCTCCCAGC
TCCGGCAGCAAGGCCCGGACGCCCTCAGTAGCTTACACGGACTGCCATCCCGGCTCG
ACCTCCTAGGGGAGCTCTCCCCGAGCCGAGCCCGGAGGGAACGCGAGCGGACCCGGG
CGCACAGGTCTGCGCGGGCGGCCCGCAATCGGCACGGGCAGGATCGGAGGACTCGCGGA
GGAGGAAGCCAGTGCCGGCCCGCGGGTGCACGCCAGCCAGCCCCAGGCCAGCCCTG
CCTCTGGCCGGACCCACCACACTTCCTTTATTGGTCTGGGTTTTTAGGCTTCTCTGAACT
TGGGTTTTAGACTGCCGTACCCTCCTCACAATCCTTGCTCTAAGGGCGAATTCAGATCTG
GTACCGATATCAAGCTTGTGACTCTAGA
  
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006192 unedited
 GGGCGTTTGTATACGACTCCTATAGGGCGGCCGAGTAACTCGCCCTTTATGGAGCAGAC
 GTATGGCGAGGTTGAACCACTGGGCGGTGTGTTCTGTCACGCGCCGCCCTGCCCAACG
 CCATCCGCTTGCAGATTGTGGAGCTGGCGCAGCTGGGCATCCGACCCTGTGACATCAGTC
 GGCAGCTCCGCGTATCCACGGCTGCGTGAGCAAGATCCTGGCGCGCTACAACGAGACCG
 GCTCCATTCTGCCCGGGGCCATCGGGGGGAGCAAGCCCCGCGTCACCACTCCCAACGTGG
 TCAAGCATCCGGGACTACAAGCAAGGAGACTTCTGTTTATCTTTGCCTGGGAGATCCG
 CGACCGGCTGCTGGCCGACGGCGTCTGTGACAAGTACAATGTGCCTTCGGTGAGCTCCAT
 CAGCCGCATCCTGCGCAACAAGATCGGCAGCCTGGCGCAGCCCGACCGTACGAGGCAAG
 TAAGCAGCGCCGTCGCGAGCTACGCTGCCCTACAACCACATCTACCAGTACCCCTACCC
 CAGTCCCGTGTGCCCACGGGCGCAAGATGGGAGCCACCCCGGGTCCCGGGCAGGC
 GGGCCACGTGAGCATCCGCGCTCATGGCCCTCGGCACACTCGGTGAGCAACATCCTGGG
 CATCCGGACGTTTATGGAGCAACAGGGGCCCTGGCTGGGAGCGAAAGCACCGCTTACTC
 TCCCAAGATGGAAGACTGGGCGGCGTGAACCGCAGGCGCTTCCCGCCACCCCGCAGT
 GAATGGGCTAGAGAACTGCCTTAGAGGCAGACATTAATACACTCAGTCGGCTCCAC
 CCTCTCTGCCGTGGGCGCTTTCTCCCGCTGCGCCTACCCGGCTCAACCAGCACGGCGTGT
 ACAAGCGCCCCGGGCGGGCGGCTACCTCCGCCCGGACG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006192 unedited
 TGTCGATGCACCTTCCGGGCGGAGAGGCACTGGGAGGGGTACAGGGATGCCACCCGG
 GATCTGTTTACGAAACAGCTATGACCGCGGCCCAATCTAGAGTCGACAAGCTTGATATC
 GGTACCAGATCTGAATTCGCCCTTAGAGCAAGGATTGTGAGGAGGGTACGGCAGTCTAAA
 ACCCAAGTTCAGAGAAGCCTAAAAACCCAGACCAATAAGGAAGTGTGGTGGGTCGGCC
 AGAGGCAGGGCTGGGCTGGGGGCTGGCTGGGCGTGCACCCCGCGGGCCGCACTGGCTT
 CCTCTCCGCGAGTCTCCGATCCTGCCGTGCCGATTGCCGGGGCCCGCGCGAGACCT
 GTGCGCCCGGGTCCGCTGCCGTTCCCTCCGGGCTCGGGTCCGGGGAGAGCTGCCCTAG
 GAGGTCGAGGCCGGATGGGCGAGTCCGTGTAAGCTACTGAGGGCGTCCGGGGCCTTGCTG
 CCGGAGCTGGGAGGCTTCTTCTCGGCTGGGATGCTTGAAGGTGATTGCTGCCCGAGTT
 CCCCAGCATGCACAGTACGCCGGCCCCGGGGGCGCCAGAGGAGGACCTTGCGCAGGCG
 GCCACGGCGGGCCCGGGGCGAGGTAGCCGCCGCCCGGGGCGCTGTACACCGCTGCTGGT
 TGGAGGCGGGTAGGCGCAGCGGGGAGAAAGCCGCCACGGCAGAGAGGGTGGAGCCGA
 CTGAGTGTATTTAATGTCTGCTCTAAAGCAGGTTCTCTAGCCATTCACTGCGGGGTGG
 GGGGAAGGCCGTGCGGTTACGCCGGCCAGTCTTCCATCTTGGGAGAGTAAGCGTGCC
 TTCGCTCCAGCCAGGGCCCTGTTTGCTCATAACGTCCGGATGCCAGATTGTTGCTGA
 CCGAATGGTGCCGAAGGCA

Restriction Sites:

Please inquire

ACCN:

NM_006192

Insert Size:

5354 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation:

This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_006192.3](#), [NP_006183.2](#)

RefSeq Size: 5354 bp

RefSeq ORF: 1605 bp

Locus ID: 5075

UniProt ID: [P15863](#)

Cytogenetics: 20p11.22

Gene Summary: This gene is a member of the paired box (PAX) family of transcription factors. Members of the PAX family typically contain a paired box domain and a paired-type homeodomain. These genes play critical roles during fetal development. This gene plays a role in pattern formation during embryogenesis and may be essential for development of the vertebral column. This gene is silenced by methylation in ovarian and cervical cancers and may be a tumor suppressor gene. Mutations in this gene are also associated with vertebral malformations. [provided by RefSeq, Mar 2012]

Transcript Variant: This variant (1) encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The extent of this transcript is supported by transcript alignments and orthologous data.