

Product datasheet for SC303747

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
CGCCACCCCGCAGTGAATGGGCTAGAGAAACCTGCCTTAGAGGCAGACATTAAATACAC
TCAGTCGGCTCCACCCTCTCTGCCGTGGGCGGCTTTCTCCCGCCTGCGCTACCCGGC
CTCCAACCAGCACGGCGTGTACAGCGCCCCGGGCGGCGGTACCTCGCCCCGGGCGGCC
GTGGCCGCTGCGCAAGTCTCTCTGCGCCCCCGGGGCGGCGTAGCTGTGCATGG
CGGGGAAGTCGCGGCAGCAATGACCTTCAAGCATCCCAGCCGAGAAGGAAGCCTCCCAGC
TCCGGCAGCAAGGCCCGGACGCCCTCAGTAGCTTACACGGACTGCCATCCCGGCTCG
ACCTCCTAGGGGAGCTCTCCCGGACCCGAGCCCGGAGGGAACGCGAGCGGACCCGGG
CGCACAGGTCTGCGCGGGCGGCCCGCAATCGGCACGGGCAGGATCGGAGGACTCGCGGA
GGAGGAAGCCAGTGCCGGCCCGCGGGTGCACGCCAGCCAGCCCCAGGCCAGCCCTG
CCTCTGGCCGGACCCACCACACTTCCTTTATTGGTCTGGGTTTTAGGCTTCTCTGAAGT
TGGGTTTTAGACTGCCGTACCCTCCTCACAATCCTTGCTCTAAGGGCGAATTCAGATCTG
GTACCGATATCAAGCTTGTGACTCTAGA
  
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_006192 unedited <pre> GGGCGTTTGTATACGACTCCTATAGGGCGGCCGAGTAACTCGCCCTTTATGGAGCAGAC GTATGGCGAGGTTGAACCAAGCTGGGCGGTGTGTTCTGTCACGCGCCGCCCTGCCAACG CCATCCGCTTGCGCATTTGTGAGCTGGCGCAGCTGGGCATCCGACCCTGTGACATCAGTC GGCAGCTCCGCGTATCCACGGCTGCGTGAGCAAGATCCTGGCGCGCTACAACGAGACCG GCTCCATTCTGCCGGGGCCATCGGGGGGAGCAAGCCCCGCGTCACCACTCCCAACGTGG TCAAGCATCCGGGACTACAAGCAAGGAGACTTCTGTTTATCTTTGCCTGGGAGATCCG CGACCGGCTGCTGGCCGACGGCGTCTGTGACAAGTACAATGTGCCTTCGGTGAGCTCCAT CAGCCGCATCCTGCGCAACAAGATCGGCAGCCTGGCGCAGCCCGACCGTACGAGGCAAG TAAGCAGCCGCCGTGCGAGCCTACGCTGCCCTACAACCACATCTACCAGTACCCCTACCC CAGTCCCGTGTGCCCACGGGCGCAAGATGGGCAGCCACCCGGGGTCCCGGGCAGGC GGGCCACGTGAGCATCCGCGCTCATGGCCCTCGGCACACTCGGTGAGCAACATCCTGGG CATCCGGACGTTTATGGAGCAACAGGGGCCCTGGCTGGGAGCGAAAGCACCGCTTACTC TCCAAGATGGAAGACTGGGCGGCGTGAACCGCAGGCCTTCCCGCCACCCCGCAGT GAATGGGCTAGAGAACTGCCTTAGAGGCAGACATTAAATACACTCAGTCGGCTCCAC CCTCTCTGCCGTGGGCGCTTTCTCCCGCTGCGCCTACCCGGCTCAACCAGCACGGCGTGT ACAAGCGCCCCGGGCGGGCGGCTACCTCCGCCCGGACG </pre>
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_006192 unedited <pre> TGTCGATGCACCTTCCGGGCGGAGAGGCACTGGGGAGGGGTACAGGGATGCCACCCGG GATCTGTTTACGAAACAGCTATGACCGCGGCCCAATCTAGAGTCGACAAGCTTGATATC GGTACCAGATCTGAATTCGCCCTTAGAGCAAGGATTGTGAGGAGGGTACGGCAGTCTAAA ACCAAGTTCAGAGAAGCCTAAAAACCCAGACCAATAAGGAAGTGTGGTGGGTCGGGCC AGAGGCAGGGCTGGGCCCTGGGGGCTGGCTGGGCGTGCACCCCGCGGGCCGCACTGGCTT CCTCCTCCGCGAGTCTCCGATCCTGCCCGTGGCGATTGCCGGGGCCCGCGCGAGACCT GTGCGCCCGGGTCCGCTGCCGTTCCCTCCGGGCTCGGGTCCGGGGAGAGCTGCCCTAG GAGGTCGAGGCCGGATGGGCAGTCCGTGTAAGTACTGAGGGCGTCCGGGGCCTTGCTG CCGGAGCTGGGAGGCTTCTTCTCGGCTGGGATGCTTGAAGGTGATTGCTGCCCGAGTT CCCCGCCATGCACAGTACGCCGGCCCCGGGGGGCGCCAGAGGAGACCTTGCGCAGGCG GCCACGGCGGGCCCGGGGCGAGGTAGCCGCCGCCCGGGGCGCTGTACACCGCTGCTGGT TGGAGGCCGGGTAGGCGCAGCGGGGAGAAAGCCGCCACGGCAGAGAGGGTGGAGCCGA CTGAGTGATTTAATGTCTGCTCTAAAGCAGGTTCTCTAGCCATTCACTGCGGGGTGG GGGGAAGGCCGTGCGGTTACGCCGGCCAGTCTTCCATCTTGGGAGAGTAAGCGTGCC TTCGCTCCAGCCAGGGCCCTGTTTGCTCATAACGTCCGGATGCCAGATTGTTGCTGA CCGAATGGTGCCGAAGGCA </pre>
Restriction Sites:	Please inquire
ACCN:	NM_006192
Insert Size:	1400 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_006192.2](#), [NP_006183.1](#)

RefSeq Size: 2838 bp

RefSeq ORF: 1323 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.