

Product datasheet for **SC303748**

PAX4 (NM_006193) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAX4 (NM_006193) Human Untagged Clone
Tag:	Tag Free
Symbol:	PAX4
Synonyms:	KPD; MODY9
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_006193 edited
GATACCTCTGTCTCACGCCAGGGATCAGCAGCATGAACCAGCTTGGGGGCTCTTTGTG
AATGGCCGGC CCCTGCCTCTGGATACCCGGCAGCAGATTGTGCGGCTAGCAGTCAGTGG
AATGCGGCCCTGTGACATCTC ACGGATCCTTAAGGTATCTAATGGCTGTGTGAGCAAGA
TCCTAGGGCGTTACTACCGCACAGGTGTCTTG GAGCCAAAGGGCATTGGGGGAAGCAAG
CCACGGCTGGCTACACCCCTGTGGTGGCTCGAATTGCCAGC TGAAGGGTGAGTGCC
AGCCCTCTTTGCCTGGGAAATCCAACGCCAGCTTTGTGCTGAAGGGCTTTGCAC CCAGG
ACAAGACTCCCAGTGTCTCCTCCATCAACCGAGTCTGCGGGCATTACAGGAGGACCAGG
GACTA CCGTGCACACGGCTCAGGTCACCAGCTGTTTTGGCTCCAGCTGCCTCACTCCC
CATAGTGGCTCTGAGA CTCCCCGGGTACCCACCCAGGGACCGCCACCGGAATCGGAC
TATCTTCTCCCCAAGCCAGGCAGAGGC ACTGGAGAAAGAGTTCCAGCGTGGGCAGTATC
CTGATTAGTGGCCCGTGGAAAGCTGGCTACTGCCACC TCTCTGCCTGAGGACACGGTG
AGGGTCTGGTTTTCCAACAGAAGAGCCAAATGGCGTCGGCAAGAGAAGC TCAAGTGGGA
AATGCAGCTGCCAGGTGCTTCCCAGGGGCTGACTGTACCAAGGGTTGCCCCAGGAATCAT
CTCTGCACAGCAGTCCCCTGGCAGTGTGCCACAGCAGCCCTGCCTGCCCTGGAACCAC
TGGGTCCCTCC TGCTATCAGCTGTGCTGGGCAACAGCACCAGAAAGGTGTCTGAGTGAC
ACCCACCTAAAGCCTGTCTCA AGCCCTGCTGGGGCCACTTGCCCCACAGCCGAATTC
CCTGGACTCAGGACTGCTTTGCCTTCCCTTGCCC TTCCTCCACTGTCCCCTGGCCAGTC
TTAGTGGCTCTCAGGCCCTGCTTGGCCTGGCTGCCACTACTG TATGGCTTGGAAATGA
GGCAGGAGTGGGAAGGAGATGGCATAG



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_006193 unedited NGTCGAGTCAGAATTGTATACGACTCATATAGGGCGGCCGGAATCGCCCTTGNAACCTC TGTCTCACGCCCAGGNATCAGCAGCATGAACCAGCTTGGGGGGCTCTTTGTGAATGGCCG GCCCTGCCTCTGGATACCCGGCAGCAGATTGTGCGGCTAGCAGTCAGTGGAAATGCGGCC CTGTGACATCTCACGGATCCTTAAGGTATCTAATGGCTGTGTGAGCAAGATCCTAGGGCG TACTACCGCACAGGTGTCTTGGAGCCAAAGGGCATTGGGGGAAGCAAGCCACGGCTGGC TACACCCCTGTGGTGGCTCGAATTGCCAGCTGAAGGGTGAGTGTCCAGCCCTCTTGC CTGGGAAATCCAACGCCAGCTTTGTGCTGAAGGGCTTTGCACCCAGGACAAGACTCCAG TGTCTCCTCCATCAACCGAGTCCTGCGGCATTACAGGAGGACCAGGGACTACCGTGCAC ACGGCTCAGGTCACCAGCTGTTTTGGCTCCAGCTGTCCTCACTCCCATAGTGGCTCTGA GACTCCCCGGGGTACCCACCCAGGGACCGGCCACCGGAATCGGACTATCTTCTCCCAAG CCAGGCAGAGGCACTGGAGAAAGAGTTCAGCGTGNGCAGTATCCTGATTCAGTGGCCCG TGGAAAGCTGGCTACTGCCACCTCTCTGCCTGNAGACACNGTGAGGGTCTGGTTTTCCAA CAGAAGAGCCAAATGGCGTCNGCAANGAGACTCAAGTGGGAAATGCAGCTGCCNAGTGC TTCCCAGGGGCTGACTGTACCAAGGGTTGCCCCAGGGATCATCTCTGCACAGCAGTCCCC TGCCAGTGTGCCACAGCAGCCCTGCCTGGCCTGGAACCC
Restriction Sites:	Please inquire
ACCN:	NM_006193
Insert Size:	1032 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.
	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:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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:	<u>NM_006193.1</u> , <u>NP_006184.1</u>
RefSeq Size:	2020 bp

RefSeq ORF: 1032 bp

Locus ID: 5078

UniProt ID: [O43316](#)

Cytogenetics: 7q32.1

Protein Families: Embryonic stem cells, ES Cell Differentiation/IPS, Transcription Factors

Protein Pathways: Maturity onset diabetes of the young

Gene Summary: This gene is a member of the paired box (PAX) family of transcription factors. Members of this gene family typically contain a paired box domain, an octapeptide, and a paired-type homeodomain. These genes play critical roles during fetal development and cancer growth. The paired box 4 gene is involved in pancreatic islet development and mouse studies have demonstrated a role for this gene in differentiation of insulin-producing beta cells. [provided by RefSeq, Jul 2008]