

Product datasheet for **SC309286**

PAX3 (NM_181457) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAX3 (NM_181457) Human Untagged Clone
Tag:	Tag Free
Symbol:	PAX3
Synonyms:	CDHS; HUP2; WS1; WS3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_181457 edited
 GCCCTTAGTCGCTGGAACATTTGCCAGACTCGTACCAAACCTTTCCGCCCTGGGCTCGG
 GATCCTGGACTCCGGGGCCTCCCGTCTCCCTTTCCCGGGTCCAGCTCCGGCCTCTG
 GACTAGGAACCGACAGCCCCCTCCCGCGTCCCTCCCTCTCTCCAGCCGTTTTGGGG
 AGGGGCTCTCCACGCTCCGGATAGTTCCCGAGGGTCATCCGCGCCGCACTCGCCTTCCG
 TTTGCGCTTACCTGGATATAATTTCCGAGCGAAGTCCCGCCAGGATGACCACGCTGGC
 CGCGCTGTGCCAGATGATGCGGCCGGGCCGGGGCAGAACTACCCGCGTAGCGGGTT
 CCCGCTGGAAGTGTCCACTCCCTCGGCCAGGGCCGCGTCAACCAGCTCGGCGGTGTTTT
 TATCAACGGCAGGCCGCTGCCCAACCACATCCGCCACAAGATCGTGGAGATGGCCACCA
 CGGCATCCGGCCCTGCGTCATCTCGCGCCAGCTGCGCGTGTCCCACGGCTGCGTCTCAA
 GATCCTGTGCAGGTACCAGGAGACTGGCTCCATACGTCTGGTGCCATCGGCGGCAGCAA
 GCCAAGCAGGTGACAACGCTGACGTGGAGAAGAAAATTGAGGAATACAAAAGAGAGAA
 CCCGGGATGTTAGCTGGGAAATCCGAGACAAATTAACAAGGACGCGGTCTGTGATCG
 AAACACCGTGCCGTGAGTCCATCAGCCGCATCCTGAGAAGTAAATTCGGGAAAGG
 TGAAGAGGAGGAGCCGACTTGGAGAGGAAGGAGGAGGAGGAAAGCGAGAAGAAGCCAA
 ACACAGCATCGAGGCATCCTGAGCGAGCGAGCCTCAGCACCCCAATCAGATGAAGGCTC
 TGATATTGACTCTGAACCAGATTTACACTAAAGAGGAAACAGCGCAGAAAGCCGAACCA
 CTTACAGCAGAACAGCTGGAGGAACTGGAGCGTGCTTTTGAGAGAACTATTACCTGA
 CATTATACTAGGGAGGAACTGGCCAGAGGGCGAAGCTCACCGAGGCCCGAGTACAGGT
 CTGTTTTAGCAACCGCGTGCAAGATGGAGGAAGCAAGCTGGGGCCAATCAACTGATGGC
 TTTCAACCATCTATTCCCGGGGGTCCCTCCCACTGCCATGCCGACCTTGCCAACGTA
 CCAGCTGTCGGAGACCTTTACCAGCCACATCTATTCCACAAGCTGTGTGATCCCA
 CAGCACCGTTACAGACCTCAACCGCTTCTCCAAGCACTGTACACCAAAGCAGGATTC
 TTCCAACCCAGACAGCAGCTCTGCCTACTGCCTCCCGAGCACCAGGCATGGATTTCCAG
 CTATACAGACAGCTTTGTGCTCCGTCGGGGCCCTCCAACCCATGAACCCACCATTGG
 CAATGGCCTCTCACCTCAGGTAATGGGACTCCTGACCAACCACGGTGGGGTACCTCATCA
 GCCCAGACTGATTACGCGCTCTCCCTCTCACCGGGGTCTGGAACCTACCACCACGGT
 GTCGGCCAGCTGCAGTCAGAGACTAGACCATATGAAGAGCTTGGACAGTCTGCCAACATC
 TCAGTCTACTGTCCACCACCTATAGCACCACAGGCTACAGTATGGACCCTGTACACAG
 CTACCAATATGGCAGTATGGACAAAGTAAGCCTTGACTTTTTAG

Restriction Sites: Please inquire

ACCN: NM_181457

Insert Size: 1900 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:	<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_181457.1 , NP_852122.1
RefSeq Size:	3193 bp
RefSeq ORF:	1440 bp
Locus ID:	5077
UniProt ID:	P23760
Cytogenetics:	2q36.1
Protein Families:	Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Transcription Factors
Gene Summary:	<p>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. Mutations in paired box gene 3 are associated with Waardenburg syndrome, craniofacial-deafness-hand syndrome, and alveolar rhabdomyosarcoma. The translocation t(2;13)(q35;q14), which represents a fusion between PAX3 and the forkhead gene, is a frequent finding in alveolar rhabdomyosarcoma. Alternative splicing results in transcripts encoding isoforms with different C-termini. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (PAX3) encodes isoform PAX3 (also known as isoform PAX3c).</p> <p>Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>