

## Product datasheet for SC323096

### PAX3 (NM\_001127366) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PAX3 (NM_001127366) Human Untagged Clone
Tag:	Tag Free
Symbol:	PAX3
Synonyms:	CDHS; HUP2; WS1; WS3
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	<p>&gt;NCBI ORF sequence for NM_001127366, the custom clone sequence may differ by one or more nucleotides</p> <pre> ATGACCACGCTGGCCGGCGCTGTGCCAGGATGATGCGGCCGGGCCGGGGCAGAACTAC CCGCGTAGCGGGTTCCCGCTGGAAGTGTCCACTCCCCTCGGCCAGGGCCGCGTCAACCAG CTCGGCGGTGTTTTATCAACGGCAGGCCGCTGCCAACCACATCCGCCACAAGATCGTG GAGATGGCCACACGGCATCCGGCCCTGCGTCATCTCGCGCCAGCTGCGCGTGTCCAC GGCTGCGTCTCCAAGATCCTGTGCAGGTACCAGGAGACTGGCTCCATACGTCCTGGTGCC ATCGGCGGCAGCAAGCCCAAGGTGACAACGCCTGACGTGGAGAAGAAAATTGAGGAATAC AAAAGAGAGAACCCGGGCATGTTCAAGTGGGAAATCCGAGACAAATTACTCAAGGACGCG GTCTGTGATCGAAACACCGTGCCGTCAGTGAGTTCCATCAGCCGCATCCTGAGAAGTAAA TTCGGGAAAGGTGAAGAGGAGGAGGCCGACTTGGAGAGGAAGGAGGCAGAGGAAAGCGAG AAGAAGGCCAAACACAGCATCGACGGCATCCTGAGCGAGCGAGCCTCAGCACCCCAATCA GATGAAGGCTCTGATATTGACTCTGAACCAGATTTACCACTAAAGAGGAAACAGCGCAGA AGCCGAACCACCTTCACAGCAGAACAGCTGGAGGAACTGGAGCGTGCTTTTGAGAGAACT CATTACCCTGACATTTATACTAGGGAGGAACTGGCCCAGAGGGCGAAGCTCACCGAGGCC CGAGTACAGGTCTGGTTTAGCAACCGCCGTGCAAGATGGAGGAAGCAAGCTGGGGCCAAT CAACTGATGGCTTTCAACCATCTCATTCCCGGGGGGTTCCCTCCCACTGCCATGCCGACC TTGCCAACGTACCAGCTGTCGGAGACCTTTACCAGCCACATCTATTCCACAAGCTGTG TCAGATCCAGCAGCACCGTTTCACAGACCTCAACCGCTTCCTCCAAGCACTGTACACCA AGCACGATTCTTCCAACCCAGACAGCTCTGCCTACTGCCTCCCCAGCACCAAGGCAT GGATTTTCCAGCTATACAGACAGCTTTGTGCCTCCGTCGGGGCCCTCCAACCCCATGAAC CCCACCATTTGGCAATGGCTCTCACCTCAGGTAATGGGACTCCTGACCAACCACGGTGGG GTACCTCATCAGCCCAGACTGATTACGCGCTCTCCCCTCTACCGGGGGTCTGGAACCT ACCACCACGGTGTGGCCAGCTGCAGTCAGAGACTAGACCATATGAAGAGCTTGACAGT CTGCCAACATCTCAGTCTACTGTCCACCCACCTATAGCACACAGGCTACAGTATGGAC CCTGTACAGGCTACCAATATGGGCAGTATGGACAAAGTGCCTTTTATTATCTCAAGCCA GATATCGCG </pre>
Restriction Sites:	Please inquire
ACCN:	NM_001127366


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<b>Insert Size:</b>	3356 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_001127366.1, NP_001120838.1</u>
<b>RefSeq Size:</b>	3356 bp
<b>RefSeq ORF:</b>	1452 bp
<b>Locus ID:</b>	5077
<b>UniProt ID:</b>	<u>P23760</u>
<b>Cytogenetics:</b>	2q36.1
<b>Protein Families:</b>	Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Transcription Factors

**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. 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]

Transcript Variant: This variant (PAX3I) differs in the 3' UTR, uses an alternate in-frame splice site in the 5' coding region, and contains an alternate splice pattern in the 3' coding region, compared to variant PAX3. The resulting protein (isoform PAX3i, also known as isoform PAX3dQ-) is longer and has a distinct C-terminus, compared to isoform PAX3. 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.