

Product datasheet for **SC309536**

PAX3 (NM_013942) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAX3 (NM_013942) Human Untagged Clone
Tag:	Tag Free
Symbol:	PAX3
Synonyms:	CDHS; HUP2; WS1; WS3
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_013942, the custom clone sequence may differ by one or more nucleotides ATGACCACGCTGGCCGGCGCTGTGCCAGGATGATGCGGCCGGGCCGGGGCAGAACTAC CCGCGTAGCGGGTTCCCCTGGAAGTGTCCACTCCCCTCGGCCAGGGCCGCGTCAACCAG CTCGGCGGTGTTTTATCAACGGCAGGCCGCTGCCAACCACATCCGCCACAAGATCGTG GAGATGGCCACCACGGCATCCGGCCCTGCGTCATCTCGCGCCAGCTGCGCGTGTCCAC GGCTGCGTCTCCAAGATCCTGTGCAGGTACCAGGAGACTGGCTCCATACGTCCTGGTGCC ATCGGCCGAGCAAGCCCAAGCAGGTGACAACGCCTGACGTGGAGAAGAAAATTGAGGAA TACAAAAGAGAGAACCCGGGCATGTTTCAGCTGGGAAATCCGAGACAAATTAAGGAC GCGGTCTGTGATCGAAACACCGTGCCGTGAGTTCATCAGCCGCATCCTGAGAAGT AAATTCGGGAAAGGTGAAGAGGAGGAGGCCGACTTGGAGAGGAAGGAGGCAGAGGAAAGC GAGAAGAAGGCCAAACACAGCATCGACGGCATCCTGAGCGAGCGAGGAAAGGCCCTGGTC TCCGGAGTTTCCTCGCATTAA
Restriction Sites:	Please inquire
ACCN:	NM_013942
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).



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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_013942.2](#), [NP_039230.1](#)

RefSeq Size: 1080 bp

RefSeq ORF: 621 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: 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 (PAX3B) differs in the 3' UTR, includes an alternate segment in the coding region, which causes a frameshift, and lacks several segments in the 3' coding region, compared to variant PAX3. The resulting protein (isoform PAX3a) has a shorter and distinct C-terminus, compared to isoform PAX3. Isoform PAX3b lacks the paired-type homeodomain.