

Product datasheet for **SC303223**

PAX7 (NM_002584) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAX7 (NM_002584) Human Untagged Clone
Tag:	Tag Free
Symbol:	PAX7
Synonyms:	HUP1; MYOSCO; PAX7B; RMS2
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_002584 edited
AAGAGATCGCAGCAGGGGTGAAGGGAGCGGACGGGAAGCGATTTTTGCCGACTTTGGATT
CGTCCCCGGCGTGCACAAGAATGGCGGCCCTTCCCGGCACGGTACCGAGAATGATGCGGC
CGGCTCCGGGGCAGAAGTACCCCGCACGGGATTCCTTTGGAAGTGTCCACCCCGCTTG
GCCAAGGCCGGTCAATCAGCTGGGAGGGTCTTCATCAATGGGCGACCCCTGCCTAAC
ACATCCGCCACAAGATAGTGGAGATGGCCACCATGGCATCCGGCCCTGTGCATCTCCC
GACAGCTGCGTGTCTCCACGGCTGCGTCTCCAAGATTCTTTGCCGCTACCAGGAGACCG
GGTCCATCCGGCCTGGGGCCATCGGCGGCAGCAAGCCAGACAGGTGGCGACTCCGGATG
TAGAGAAAAAGATTGAGGAGTACAAGAGGAAAAACCCAGGCATGTTACAGTGGGAGATCC
GGGACAGGCTGTGAAGGATGGGCACTGTGACCGAAGCACTGTGCCCTCAGGTTTGTGTA
GTTTCGATTAGCCGCGTCTCAGAATCAAGTTCGGGAAGAAAGAGGAGGAGGATGAAGCGG
ACAAGAAGGAGGACGACGGCGAAAAGAAGGCCAAACACAGCATCGACGGCATCCTGGGCG
ACAAAGGGAACCGGCTGGACGAGGGCTCGGATGTGGAGTCGGAACCTGACCTCCCACTGA
AGCGCAAGCAGCAGCAGTCCGACACATTACGGCCGAGCAGCTGGAGGAGCTGGAGA
AGGCCTTTGAGAGGACCCACTACCCAGACATATACACCCGCGAGGAGCTGGCGCAGAGGA
CCAAGCTGACAGAGGCGGTGTGCAGGTCTGGTTCAAGTAAACCGCCGCGCCGTTGGCGTA
AGCAGGCAGGAGCAACCAAGCTGGCGGGCTTCAACCACCTTCTGCCAGGAGGCTTCCCGC
CCACCGGCATGCCACGCTGCCCCCTACCAGCTGCCGGACTCCACCTACCCACCACCA
CCATCTCCAAGATGGGGCAGCACTGTGCACCGGCTCAGCCCTGCCACCGTCCACCA
TGCACAGGGCGGGCTGGCTGCAGCGGCTGCAGCCGCGACACCAAGCTCTGCCTACGGAG
CCCGCCACAGTTCTCCAGTACTCTGACAGTTCATGAATCCGGCGGCGCCCTCCAACC
ACATGAACCCGGTCAGCAACGGCCTGTCTCCTCAGGTGATGAGCATCTTGGGCAACCCCA
GTGCGGTGCCCGCAGCCACAGGCTGACTTCTCCATCTCCCGTGCATGGCGGCTGG
ACTCGGCCACCTCCATCTCAGCCAGCTGCAGCCAGCGGGCCGACTCCATCAAGCCAGGGG
ACAGCCTGCCACCTCCAGGCCTACTGCCACCCACCTACAGCACCCAGGCTACAGCG
TGGACCCCGTGGCCGGCTATCAGTACGGCCAGTACGGCCAGAGTGAAGTGCCTGGTGCCT
GGGCGTCCCCGTCCCCATTCTTCTCCACCCCGAGGCTCCTGCTTGTATGGAGA
GCTACAAGGTGGTGTGAGGTGGGAATGTCCATTTACAGATGGAAAAATTGAAGTCCA
GCCAGATGGAACAGTTCACCTAAAATGACACTGAGTTGGGCAAAACCCAGGACATCTCT
GGCTAAGCCTCTGCTCCGTAATATGGCTCCAACAGAAAATAAAATACACAGCACAATAT
CAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_002584

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.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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_002584.1, NP_002575.1</u>
RefSeq Size:	2272 bp
RefSeq ORF:	1563 bp
Locus ID:	5081
UniProt ID:	<u>P23759</u>
Cytogenetics:	1p36.13
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 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 specific function of the paired box 7 gene is unknown but speculated to involve tumor suppression since fusion of this gene with a forkhead domain family member has been associated with alveolar rhabdomyosarcoma. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2008]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1).</p>