

Product datasheet for **SC304018**

PAX7 (NM_013945) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAX7 (NM_013945) 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_013945 edited
AAGAGATCGCAGCAGGGGTGAAGGGAGCGGACGGGAAGCGATTTTTGCCGACTTTGGATT
CGTCCCCGGC GTGCGCAAGAATGGCGGCCCTTCCCGGCACGGTACCGAGAATGATGCG
GCCGGTCCGGGGCAGAACTAC CCCCACGCGGATTCCCTTTGGAAGTGTCCACCCCG
CTTGGCCAAGGCCGGTCAATCAGCTGGGAGGGG TCTTCATCAATGGGCGACCCCTGC
CTAACACATCCGCCACAAGATAGTGGAGATGGCCACCATGGCAT CCGGCCCTGTGT
CATCTCCCGACAGCTGCGTGTCTCCACGGCTGCGTCTCCAAGATTCTTTGCCGCTAC
CAGGAGACCGGGTCCATCCGGCCTGGGGCCATCGGCGGCAGCAAGCCCAGACAGGTGGCG
ACTCCGGATG TAGAGAAAAAGATTGAGGAGTACAAGAGGGAAAAACCCAGGCATGTTCA
GCTGGGAGATCCGGGACAGGCT GCTGAAGGATGGGCACTGTGACCGAAGCACTGTGCC
CTCAGTGAGTTTCGATTAGCCGCTGCTCAGAATC AAGTTCGGGAAGAAAGAGGAGGAG
GATGAAGCGGACAAGAAGGAGGACGACGGCGAAAAGAAGGCCAAAC ACAGCATCGAGC
GCATCCTGGGCGACAAAGGAACCGGCTGGACGAGGGCTCGGATGTGGAGTCGGAACC
TGACCTCCCACTGAAGCGCAAGCAGCGACGCAGTCCGACCACATTACGCGCCGAGCAGCT
GGAGGAGCTG GAGAAGGCCTTTGAGAGGACCCACTACCCAGACATATACACCCGCGAG
GAGCTGGCGCAGAGGACCAAGC TGACAGAGGCGCGTGTGCAGGTCTGGTTCAGTAACC
GCCGCGCCGTTGGCGTAAGCAGGCAGGAGCCAA CCAGCTGGCGGCGTTCAACCACCT
TCTGCCAGGAGGCTTCCCGCCACCGGCATGCCACGCTGCCCCCT TACCAGCTGCCG
GACTCCACCTACCCACCACCACCATCTCCAAGATGGGGCAGCACTGTGCACCCGGC
CTCAGCCCCTGCCACCGTCCACCATGCACCAGGGCGGGCTGGTGCAGCGGCTGCAGCCG
CCGACACCAG CTCTGCCTACGGAGCCCGCCACAGCTTCTCCAGCTACTTGACAGCTT
CATGAATCCGGCGGCGCCCTCC AACACATGAACCCGGTCAACGCAACGGCCTGTCTCCT
CAGGTGATGAGCATTTGGGCAACCCAGTGCGG TGCCCCCGCAGCCACAGGCTGACT
CTCCATCTCCCGCTGCATGGCGGCTGGACTCGGCCACCTCCAT CTCAGCCAGCTG
CAGCCAGCGGGCGACTCCATCAAGCCAGGAGACAGCCTGCCACCTCCAGGCCTAC
TGCCACCCACCTACAGCACCACCGGCTACAGCGTGGACCCCGTGGCCGCTATCAGTAC
GGCCAGTACG GCCAGAGTGAGTGCCTGGTGCCTGGGCGTCCCCGTCCTCCATTCTT
CTCCACCCCGAGGCGCTCTG CTTGTTTATGGAGAGCTACAAGGTGGTGTGAGGGTG
GGGAATGTCCATTTACAGATGGAAAAATTGAAG TCCAGCCAGATGGAACAGTTACC
TAAAATGACACTGAGTTGGGCAAAACCCAGGACATCTCCTGGCTAA GCCTCTGTTCC
GTAATATG

Restriction Sites: Please inquire

ACCN: NM_013945

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: 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:

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_013945.1](#), [NP_039236.1](#)

RefSeq Size: 2255 bp

RefSeq ORF: 1557 bp

Locus ID: 5081

UniProt ID: [P23759](#)

Cytogenetics: 1p36.13

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 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]
Transcript Variant: This variant (2) uses an alternate in-frame splice site compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is two aa shorter compared to isoform 1.