

## Product datasheet for **SC124278**

### SP110 (NM\_080424) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SP110 (NM_080424) Human Untagged Clone
Tag:	Tag Free
Symbol:	SP110
Synonyms:	IFI41; IFI75; IPR1; VODI
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_080424, the custom clone sequence may differ by one or more nucleotides

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ATGTTCCACCATGACAAGAGCCATGGAAGAGGCTCTTTTTCAGCACTTCATGCACCAGAAGCTGGGGATCG
CCTATGCCATACACAAGCCATTTCCCTTCTTTGAAGGCCTCCTAGACAACCTCCATCATCTAAGAGAAT
GTACATGGAATCTCTGGAAGCCTGTAGAAATTTGATCCCTGTATCCAGAGTGGTGCACAACATTCTCACC
CAACTGGAGAGGACTTTTTAACCTGTCTTCTGGTGACATTGTTCAAGTCAAATTAACCTGCGTGAATATC
CCAATCTGGTGACGATTTACAGAAGCTTCAAACGTGTTGGTGCTTCTATGAACGGCAGAGCAGAGACAC
ACCAATCTACTTGAAGCCCAACTGGCCTAGCAGAAGGAAGCTCCCTCCATACCCCACTGGCGTGCCC
CCACCACAACCCCTCAACCAAGCTGTTACCCTGTGCGCAAGAGTCAGTGAGCCTGGAACATCTCCC
AGCAAAGCGATGAGATCCTGAGTGAGTCGCCCAGCCATCTGACCCTGTCTGCTCCTCCTGCCTCAT
CCAGGAAGGAAGAAGCACTTCAGTGACCAATGACAAGTTAACATCCAAAATGAATGCGGAAGAAGACTCA
GAAGAGATGCCAGCCTCCTCACTAGCACTGTGCAAGTGGCCAGTGACAACCTGATCCCCAAAATAAGAG
ATAAAGAAGACCCTCAAGAGATGCCCACTCTCCCTTGGGCTCTATGCCAGAGATAAGAGATAATTTCC
AGAACCAAATGACCCAGAAGAGCCCAAGAGGTGTCCAGCACACCTTCAGACAAGAAAGGAAAGAAAAGA
AAAAGATGTATCTGGTCAACTCCAAAAGGAGACATAAGAAAAAAGCCTCCCAGGAGGGACAGCCTCAT
CTAGACACGGAATCCAAAAGAAGCTCAAAAGGGTGGATCAGGTTCTCAAAAAGAAAGATGACTCAACTTG
TAACTCCACGGTAGAGACAAGGGCCAAAAGGCGAGAAGTGAATGTGCCCGAAAGTCGAGATCAGAGGAG
ATCATTGATGGCACTTCAGAAATGAATGAAGGAAAAGAGTCCCAGAAGACGCCTAGTACACCACGAAGGG
TCACACAAGGGGCAGCCTCACCTGGGCATGGCATCCAAGAGAAGCTCCAAGTGGTGGATAAAGGTGACTCA
AAGGAAAAGACGACTCAACCTGGAACCTCAGAGGTCATGATGAGGGTCCAAAAGGCAAGAATAAATGTGCC
CGAAAGTCCAGATCGAAAGAAAAGAAAAGGAGAAAGATATCTGTTCAAGCTCAAAAAGGAGATTTTCAGA
AAAATATTCACCGAAGAGGAAAACCCAAAAGTGACACTGTGGATTTTCACTGTTCTAAGCTCCCCGTGAC
CTGTGGTGAGGCGAAAGGATTTTATATAAGAAGAAAATGAAACACGGATCCTCAGTGAAGTGCATTTCGG
AATGAGGATGGAACCTGGTTAACACCAAATGAATTTGAAGTCGAAGGAAAAGGAAGGAACGCAAAGAAGT
GGAAACGGAATATACGTTGTGAAGGAATGACCCTAGGAGAGCTGCTGAAGCGGAAAAACTCGGATGAATG
CGAGGTGTGCTGTCAAGGGGACAACCTCTGCTGCGGTACTTGTCCACGAGTCTTCCATGAGGACTGT
CACATCCCCCTGTGGAAGCCAAGAGGATGCTGTGGAGTTGCACCTTCTGCAGGATGAAGAGGTCTTCAG
GAAGCCAACAGTGCCATCATGTATCTAAGACCCTGGAGAGGCAGATGCAGCCTCAGGACCAGCTGAAATG
TGAGTTCTCTCTTGAAGGCCTACTGTATCCCAAAGCTCCTTTTTTACGGGCATCCCATTTAATATT
CGAGATTACGGTGAGCCCTTTCAGGAAGCAATGTGGTTGGACCTGGTTAAGGAAAAGGCTGATTACGAAA
TGTACACGGTGGCATGGTTTGTGCGAGACATGCGCCTGATGTTTCGCAACCATAAAAACATTTTACAAGGC
TTCTGACTTTGGCCAGGTAGGACTTGACTTAGAGGCAGAAATTTGAAAAGATCTCAAAGACGTGCTCGGT
TTTCATGAAGCCAATGACGGCGGTTTCTGGACTCTTCTTGA
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_080424 unedited            GTGCTAGCATTTGTCAATACTACTTTCATCTTAGGNCGAGCCGCGNAATTNCGAGCACGAA            GGTAAACCTCTCCCAATCTTAGAGAGTGATCCCTGTCCCAGCCCCTGGAAAGGGCAGGAAC            GACAAACTCAAAGTCCAGGATGTTACCATGACAAGAGCCATGGAAGAGGCTCTTTTTCA            GCATTCATGCACCAGAAGCTGGGGATCGCCTATGCCATACACAAGCCATTTCCCTTCTT            TGAAGGCTCCTATACAACCTCCATCATCTACTAAGAGAATGTACATGGAATCTCTGGAAGC            CTGTAGAAATTTGATCCCTGTATCCAGAGTGGTGCACAACATTTCCACCCAACTGGAGAG            GACTTTTTAACCTGTCTTCTGGTGACATTGTTCAAGTCAAATTAACCTGGTGAATATCC            CAATCTGGTGACGATTTACAGAAGCTTCAAACGTGTTGGTGCTTCTATGAACGGCAGAG            CAGAGACACACCAATCTACTTGAAGCCCCAACTGGCCTATCAGAAAGAAGCTCCCTCCA            TACCCCACTGGCGCTGCCCCACCACAACCCCTCAACCAAGCTGTTACCCTGTGCGCC            AAGAGTCAGTGAGCCTGGAACATCTCCAGCAAAGCGATGAGATCCTGAGTGAGTCGCC            CATCCCATCTGACCCTGTCTGCCTCTCCCTGCACTCATCCAGGAAAGAAGAAGCACTTC            AGTGACCAATGACAAGTTAACATCCAAAATGAATGTGGAAGAAGACTCAGAAGATAGCCC            AGCCTCCTCACTAGCACTGTGCAAGTGGCCAGTGACAACCTGATCCCCNAATAGAGATA            AAGAAGACCTCAAGAGATGCCCACTCTCCCTGGGCTCTATCCAGAGATAGAGATATTCT            NCAAAACCAATGACCATATATCCAGNAGTGCCA</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_080424 unedited            TTGTCCATGGAATGGCAACTCCAGGTCCAGNAAAGCATTGGGGTAGGGGTACACAGGNA            TGCCACCCGGGTATCTTGTTCAGGTAACAGCTATGACCGCGCCGCAATCTAGAGTCGA            GTTTTTTTTTTTTTTTTTTAGTGTAGATATAGACTTTTTAAAGGTTAAAAGAAAGATAA            AGATGGAGGGTGTGATAATCCTATGAAGTGTCTTGTGTTGGGTCCTGAGGGCAGCCAATT            ACATCCCTTTTTCTTGTCAATCAACAGTCCAAGTTTGGGTCCTCACCTGAATCCTGA            GGTGTGGATGCTTAACTTCAAGATTATGGCCAACGATTATCCATTTCCGCCTTCTT            TTTCTTCATGAAAACCGATTACCCCTTTTTTTTTTCCACACCTCCTTCTATTTTT            AACCCCATTTGACCTTTTTTTTAACTTTGCATAACGTTTTAATGGTTGCTAAATATTCA            GCGCATGTCTTTTCACTTTCAAGCTTTTGTTCATTTTTTTTTTCCCCTTTCCTTACCCG            TTTTTTTTTTTTTTGGCCCTTGATAGGTCTTTTGGCACCTACCAACCACGCCCTTTTAA            TTTTTTGTACTGTGTTGGAGTTTTTAAACCAGATGTTCCCTTTTCTTACAGCGCACCT            ACTTTTTTGTTTTTCTTTTTTCCACTGTTTTTATTTTTTGTTTTTCCGAGGACCCTTTCCC            CGTTTTTATTTTACACCCCTTTCCGCCCGAAACCAACGTTTCCACTTTATTTTTTTTT            ACCACCACTTTATTTTCGCTTTCTCAATTATATTTTTTCCCTTTTATGGAGCACGACC            GATTTTTTTACAAGATCGAATGNGCTGAGTTTTACACGCGTTTGNCCCCTTTGTCTTTT            TTTT</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_080424
<b>Insert Size:</b>	2600 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>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).

**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\\_080424.1](#), [NP\\_536349.1](#)

**RefSeq Size:** 2591 bp

**RefSeq ORF:** 2142 bp

**Locus ID:** 3431

**UniProt ID:** [Q9HB58](#)

**Cytogenetics:** 2q37.1

**Domains:** SAND, BROMO, PHD, Sp100

**Protein Families:** Druggable Genome, Transcription Factors

**Gene Summary:** The nuclear body is a multiprotein complex that may have a role in the regulation of gene transcription. This gene is a member of the SP100/SP140 family of nuclear body proteins and encodes a leukocyte-specific nuclear body component. The protein can function as an activator of gene transcription and may serve as a nuclear hormone receptor coactivator. In addition, it has been suggested that the protein may play a role in ribosome biogenesis and in the induction of myeloid cell differentiation. Alternative splicing has been observed for this gene and three transcript variants, encoding distinct isoforms, have been identified. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (c) represents the longest transcript and it encodes the longest protein (isoform c).