

## Product datasheet for **RC215272**

### SP110 (NM\_080424) Human Tagged ORF Clone

#### Product data:

|                    |  |
|--------------------|--|
| Product Type:      | Expression Plasmids                      |
| Product Name:      | SP110 (NM_080424) Human Tagged ORF Clone |
| Tag:               | Myc-DDK                                  |
| Symbol:            | SP110                                    |
| Synonyms:          | IFI41; IFI75; IPR1; VODI                 |
| Vector:            | pCMV6-Entry (PS100001)                   |
| E. coli Selection: | Kanamycin (25 ug/mL)                     |
| Cell Selection:    | Neomycin                                 |



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**ORF Nucleotide Sequence:**

>RC215272 representing NM\_080424  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTCCACCATGACAAGACCATGGAAGAGGCTCTTTTTCAGCACTTCATGCACCAGAAGCTGGGGATCG  
 CCTATGCCATACACAAGCCATTTCCCTTTTGAAGGCCTCCTAGACAACCTCCATCATCACTAAGAGAAT  
 GTACATGGAATCTCTGGAAGCCTGTAGAAATTTGATCCCTGTATCCAGAGTGGTGACAACATTCTCACC  
 CAACTGGAGAGGACTTTTAACTGTCTCTCTGGTGACATTGTTCAAGTCAAATTAACCTGCGTGAATATC  
 CCAATCTGGTGACGATTTACAGAAGCTTCAAACGTGTTGGTGCTTCTATGAACGGCAGAGCAGAGACAC  
 ACCAATCTACTTGAAGCCCCAACTGGCCTAGCAGAAGGAAGCTCCCTCCATACCCCACTGGCGTGCCC  
 CCACCACAACCCCTCAACCAAGCTGTTACCCTGTGCGCAAGAGTCAGTGAGCCTGGAACATCTCTCC  
 AGCAAAGCGATGAGATCCTGAGTGAGTCGCCCAGCCCCTGACCCTGTCTCTGCCCTCTCCCTGCACTCAT  
 CCAGGAAGGAAGAAGCACTTCAGTGACCAATGACAAGTTAACATCCAAAATGAATGCGGAAGAAGACTCA  
 GAAGAGATGCCAGCCTCCTCACTAGCACTGTGCAAGTGCCAGTGACAACCTGATCCCCAAAATAAGAG  
 ATAAAGAAGACCCTCAAGAGATGCCCACTCTCCCTTGGGCTCTATGCCAGAGATAAGAGATAATTCTCC  
 AGAACCAATGACCCAGAAGAGCCCCAGGAGGTGTCCAGCACACCTTCAGACAAGAAAGGAAAGAAAAGA  
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 CTAGACACGGAATCCAAAAGAAGCTCAAAGGGTGGATCAGGTTCTCAAAGAAAGATGACTCAACTTG  
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 ATCATTGATGGCACTTCAGAAATGAATGAAGGAAAGAGGTTCCAGAAGACGCCTAGTACACCACGAAGGG  
 TCACACAAGGGGCAGCCTCACCTGGGCATGGCATCCAAGAGAAGCTCCAAGTGGTGGATAAAGTGACTCA  
 AAGGAAAAGACGACTCAACCTGGAACCTCAGAGGTCATGATGAGGGTCCAAAAGGCAAGAAGTAAATGTGCC  
 CGAAAGTCCAGATCGAAAAGAAAAGAAAAGGAGAAAGATATCTGTTCAAGCTCAAAAAGGAGATTTCAGA  
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 AATGAGGATGGAAGTGGTTAACACCAATGAATTTGAAGTGAAGGAAAAGGAAGGAACGCAAAGAAGT  
 GGAACCGAATATACGTTGTGAAGGAATGACCCTAGGAGAGCTGCTGAAGCGGAAAAGTCCGATGAATG  
 CGAGGTGTGCTCAAGGGGACAACCTCTCTGCTGCGGTAAGTGTCCACGAGTCTCCATGAGGACTGT  
 CACATCCCCCTGTGGAAGCCAAGAGGATGCTGTGGAGTTGCACCTTCTGCAGGATGAAGAGGTCTTCAG  
 GAAGCCAACAGTGCCATCATGTATCTAAGACCCTGGAGAGGCAGATGCAGCCTCAGGACCAGCTGAAATG  
 TGAGTTCTCTCTTGAAGGCCTACTGTATCCCAAAGCTCCTTTTTTACGGGCATCCCATTTAATATT  
 CGAGATTACGGTGAGCCCTTTCAGGAAGCAATGTGGTTGGACCTGGTTAAGGAAAGGCTGATTACGAAA  
 TGTACACGGTGGCATGGTTTGTGCGAGACATGCGCCTGATGTTTCGCAACCATAAAAATTTTACAAGGC  
 TTCTGACTTTGGCCAGGTAGGACTTGACTTAGAGGCAGAAATTTGAAAAGATCTCAAAGACGTGCTCGGT  
 TTTTCATGAAGCCAATGACGGCGGTTTCTGGACTTTCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC215272 representing NM\_080424  
 Red=Cloning site Green=Tags(s)

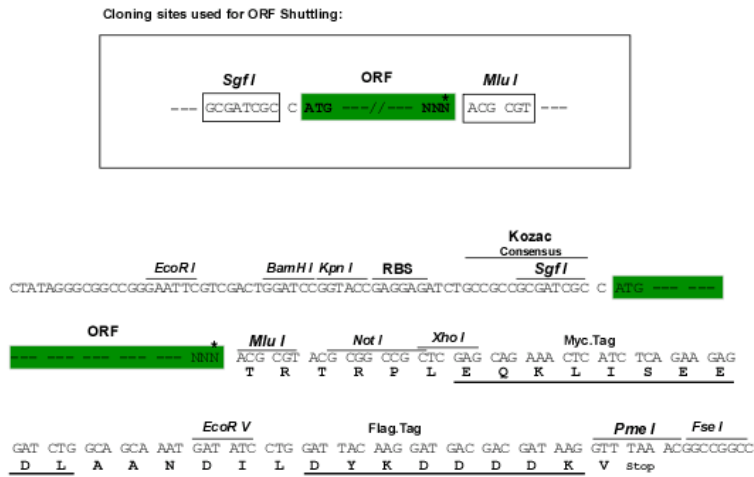
MFTMTRAMEEALFQHFMHQKLGIAAYAIHKPFPFFEGLLDNSIITKRMYESLEACRNLIPVSRVHNI  
 QLERTFNL SLLVTLFSQINLREYPNLVTIYRSFKRVGAS YERQSRDTPILLEAPTGLAEGSSLHTPLALP  
 PPQPPQSPSCAPRVSEPGTSSQQSDEILSESPSPDPVLPALIQEGRSTSVTNDKLT SKMNAEEDS  
 EEMPSLLTSTVQVADNLIPIQIRDKEDPQEMPHSPLGSMPEIRDNSPEPNDPEEPQEVSSTPSDKKGKKR  
 KRCIWSTPKRRHKKSLPGGTASSRHGIQKCLKRVDQVPQKDDSTCNSTVETRAQKARTECARKSRSEE  
 IIDGTSEMNEGKRSQKTPSTPRRV TQGAASPGHGIQEKLQVVDKVTQRKDDSTWNSEVMMRVQKARTKCA  
 RKRSRSEKKEKEDISSSKRRFQKNIHRRGKPKSDTVDFHCSKLPVTCGEAKGILYKKMKHGSSVVKCIR  
 NEDGTWLTPNEFEVEGKGRNAKNWKRNI RCEGMLGELLKRKNSDECEVCCQGGQLLCCGTCPRVFHEDC  
 HIPPEAKRMLWSCTFCRMKRSSGSQQCHHVSKTLERQMOPQDQLKCEFLLLKAYCHPQSSFFTGIPFNI  
 RDYGEPEQAMWLDL VKERLITEMYTVAWFVRDMRLMFRNHKTFYKASDFGQVGLDLEAEFEKDLKDVLG  
 FHEANDGGFWTL P

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

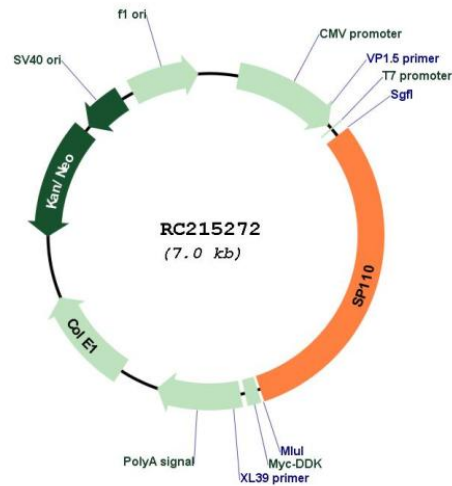
Sgfl-MluI

Cloning Scheme:



\* The last codon before the Stop codon of the ORF

## Plasmid Map:



ACCN: NM\_080424

ORF Size: 2139 bp

**OTI Disclaimer:** 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:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_080424.2](#), [NP\\_536349.2](#)

RefSeq Size: 2591 bp

RefSeq ORF: 2142 bp

|                          |   |
|--------------------------|---|
| <b>Locus ID:</b>         | 3431  |
| <b>UniProt ID:</b>       | <a href="#">Q9HB58</a>  |
| <b>Cytogenetics:</b>     | 2q37.1  |
| <b>Domains:</b>          | SAND, BROMO, PHD, Sp100   |
| <b>Protein Families:</b> | Druggable Genome, Transcription Factors   |
| <b>MW:</b>               | 81.1 kDa  |
| <b>Gene Summary:</b>     | <p>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]</p> |