

Product datasheet for **RC230264**

SP110 (NM_001185015) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SP110 (NM_001185015) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SP110
Synonyms:	IFI41; IFI75; IPR1; VODI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC230264 representing NM_001185015
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGAGGGCTTCAGGATGTTACCATGACAAGAGCCATGGAAGAGGCTCTTTTTTCAGCACTTTCATGC
 ACCAGAAGCTGGGATCGCCTATGCCATACACAAGCCATTTCCCTTCTTTGAAGGCTCCTAGACAACCTC
 CATCATCACTAAGAGAATGTACATGGAATCTCTGGAAGCCTGTAGAAATTTGATCCCTGTATCCAGAGTG
 GTGCACAACATTCTACCCAACCTGGAGAGGACTTTAACCTGTCTCTTCTGGTGACATTGTTTCAGTCAAA
 TTAACCTGCGTGAATATCCCAATCTGGTACGATTTACAGAAGCTTCAAACGTGTTGGTGCTTCTATGA
 ATGGCAGAGCAGAGACACCAATCCTACTTGAAGCCCCAACCTGGCCTAGCAGAAGGAAGCTCCCTCCAT
 ACCCCACTGGCGTGCCCCACCACAACCCCTCAACCAAGCTGTTACCCTGTGCGCCAAGAGTCAGTG
 AGCCTGGAACATCTCCAGCAAAGCGATGAGATCCTGAGTGAGTCGCCAGCCCATCTGACCCTGTCTCT
 GCCTCTCCCTGCACTCATCCAGGAAGGAAGAAGCACTTCACTGACCAATGACAAGTTAACATCCAAAATG
 AATGCGGAAGAAGACTCAGAAGAGATGCCAGCCTCCTCACTAGCACTGTGCAAGTGCCAGTGACAACC
 TGATCCCCCAAATAAGAGATAAAGAAGACCCTCAAGAGATGCCCACTCTCCCTGGGCTCTATGCCAGA
 GATAAGAGATAATTCTCCAGAACCAATGACCCAGAAGAGCCCCAGGAGGTGCCAGCACACCTTCAGAC
 AAGAAAGGAAAGAAAAGAAAAGATGTATCTGGTCAACTCCAAAAAGGAGACATAAGAAAAAAGCCTCC
 CAGGAGGGACAGCCTCATCTAGACACGGAATCCAAAAGAGCTCAAAGGGTGGATCAGGTTCTCAAAA
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 AAGTCGAGATCAGAGGAGATCATTGATGGCACTCAGAAATGAATGAAGGAAAGAGGTCCAGAAGACGC
 CTAGTACACCAGAAGGGTCACACAAGGGCAGCCTCACCTGGGCATGGCATCAAAGAGAAGCTCCAAGT
 GGTGGATAAAGGTGACTCAAAGGAAAGACGACTCAACCTGGAAGTCAAGAGTCATGATGAGGGTCCAAAAG
 GCAAGAAGTAAATGTGCCGAAAGTCCAGATTGAAAGAAAAGAAAAGGAGAAAGATATCTGTTCAAGCT
 CAAAAAGGAGATTTAGAAAAATATTCACCGAAGAGGAAAACCCAAAAGTGAAGTGTGGATTTTCACTG
 TTCTAAGCTCCCCGTGACCTGTGGTGAGGCGAAAGGGATTTTATAAAGAAGAAAATGAAACACGGATCC
 TCAGTGAAGTGCATTGGAATGAGGATGGAAGTGGTTAACACCAATGAATTTGAAGTCGAAGGAAAAG
 GAAGGAACGCAAGAAGTGGAAACGGAATATACGTTGTGAAGGAATGACCCTAGGAGAGCTGCTGAAGAG
 TGGACTTTGCTCTGCTCCTCAAGAATAAATCTCAAGAGAGAGTTAAATAGCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC230264 representing NM_001185015
 Red=Cloning site Green=Tags(s)

MGRGRFMTMTRAMEEALFQHFHQKLGIAAYAIHKPFPFFEGLLDNSIITKRYMESLEACRNLIPVSRV
 VHNILTQLERTFNL SLLVTLFSQINLREYPNLVTIYRSFKRVGASYEWQSRDTPILLEAPTGLAEGSSLH
 TPLALPPPQPPQSPCSPCAPRVSEPGTSSQQSDEILSESPSPDPVLPALIQEGRSTSVTNDKLT SKM
 NAEEDSEEMPSLLTSTVQVADNLIPQIRDKEDPQEMPHSPLGSMPEIRDNSPEPNDPEEPQEVSSPSPD
 KKGKKRRCIWPTRRRHKKSLPGGTASSRHGIQKLLKRVDPVQPKDDSTCNSTVETRAQKARTECAR
 KSRSEEI IDGTSEMNEGKRSQKTPSTPRRVTQGAASPGHGIQEKLVVDKVTQRKDDSTWNSEVMVRVQK
 ARTKCARKSRLKEKKKEDISSSKRRFQKNIHRRGPKSDTVDFHCSKLPVTCGEAKGILYKKMKHGS
 SVKCI RNEDGTWLPNEFEVEGKGRNAKNWKRNI RCEGMLGELLKSGLLLCPPRINL KRELNSK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8067_a05.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001185015

ORF Size: 1665 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_001185015.2](#)

RefSeq ORF: 1668 bp

Locus ID: 3431

UniProt ID: [Q9HB58](#)

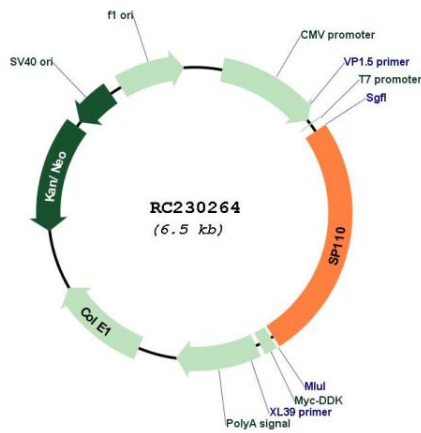
Cytogenetics: 2q37.1

Protein Families: Druggable Genome, Transcription Factors

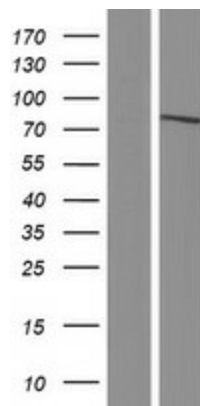
MW: 63.1 kDa

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]

Product images:



Circular map for RC230264



Western blot validation of overexpression lysate (Cat# [LY433264]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC230264 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).