

Product datasheet for **RG205648**

SP110 (NM_004510) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SP110 (NM_004510) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SP110
Synonyms:	IFI41; IFI75; IPR1; VODI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG205648 representing NM_004510
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTCCACCATGACAAGGCCATGGAAGAGGCTCTTTTTCAGCACTTCATGCACCAGAAGCTGGGGATCG
 CCTATGCCATACACAAGCCATTTCCCTTTTGAAGGCCTCTAGACAACCCATCATCACTAAGAGAAT
 GTACATGGAATCTCTGGAAGCCTGTAGAAATTTGATCCCTGTATCCAGAGTGGTGACAACATTCTCACC
 CAACTGGAGAGGACTTTTAACTGTCTCTCTGGTGACATTGTTTCAGTCAAATTAACCTGCGTGAATATC
 CCAATCTGGTGACGATTTACAGAAGCTTCAAACGTGTTGGTGCTTCTATGAACGGCAGAGCAGAGACAC
 ACCAATCTACTTGAAGCCCACTGGCCTAGCAGAAGGAAGCTCCCTCCATACCCCACTGGCGTGCC
 CCACCACAACCCCTCAACCAAGCTGTTACCCTGTGCGCAAGAGTCAGTGAGCCTGGAACATCTCC
 AGCAAAGCGATGAGATCCTGAGTGAGTCGCCAGCCCATCTGACCCTGTCCTGCCTCTCCCTGCACTCAT
 CCAGGAAGGAAGAAGCACTTCAGTGACCAATGACAAGTTAACATCCAAAATGAATGCGGAAGAAGACTCA
 GAAGAGATGCCAGCCTCCTCACTAGCACTGTGCAAGTGCCAGTGACAACCTGATCCCCAAAATAAGAG
 ATAAAGAAGACCCTCAAGAGATGCCCACTCTCCCTGGGCTCTATGCCAGAGATAAGAGATAATTTCC
 AGAACCAATGACCCAGAAGAGCCCAAGGAGGTGTCCAGCACACCTTCAGACAAGAAAGGAAAGAAAAGA
 AAAAGATGTATCTGGTCAACTCCAAAAGGAGACATAAGAAAAAAGCCTCCCAAGAGCCTTATCTAGAC
 ACGGAATCCAAAAGAAGCTCAAAAGGGTGGATCAGGTTCTCAAAAGAAAGATGACTCAACTTGTAACTC
 CACGGTAGAGACAAGGGCCAAAAGGCGAGAAGTGAATGTGCCGAAAGTCGAGATCAGAGGAGATCATT
 GATGGCACTTCAGAAATGAATGAAGGAAAGAGGTTCCAGAAGCAGCCTAGTACACCACGAAGGTCACAC
 AAGGGGCAGCCTCACCTGGGCATGGCATCCAAGAGAAGCTCCAAGTGGTGATAAAGGTGACTCAAAGGAA
 AGACGACTCAACCTGGAAGTCAAGAGTCAAGTGAAGGGTCCAAAAGGCAAGAAGTAAATGTGCCGAAAG
 TCCAGATCGAAAAGAAAAGAAAAGGAGAAAAGATATCTGTTCAAGCTCAAAAAGGAGATTTAGAAAAATA
 TTCACCGAAGAGGAAAACCCAAAAGTGACACTGTGGATTTTCACTGTTCTAAGCTCCCGTGACCTGTGG
 TGAGGGCAAAGGGATTTTATATAAGAAGAAAATGAAACACGGATCCTCAGTGAAGTGATTCCGGAATGAG
 GATGGAAGTTGGTTAACACCAAATGAATTTGAAGTCAAGGAAAAGGAAGGAAACGAAAGAACTGGAAAC
 GGAATATACGTTGTGAAGGAATGACCCTAGGAGAGCTGCTGAAGAGTGGACTTTTGTCTGCTCCTCAAG
 AATAAATCTCAAGAGAGAGTTAAATAGCAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG205648 representing NM_004510
 Red=Cloning site Green=Tags(s)

MFTMTRAMEEALFQHFHQKLGIAIYAIHKPFPFFEGLLDNSIITKRMYESLEACRNLIPVSRVHNIILT
 QLERTFNL SLLVTLFSQINLREYPNLVTIYRSFKRVGASYSRQSRDTPILLEAPTGLAEGSSLHTPLALP
 PPQPPQPSPCAPRVSEPGTSSQQSDEILSESPSPDPVLPALIQEGRSTSVTNDKLT SKMNAEEDS
 EEMPSLLTSTVQVADNLIPQIRDKEDPQEMPHSPLGSMPEIRDNSPEPNDPEEPQEVSTSPDKKGGKR
 KRCIWSTPKRRHKKSLPRALSRHGIQKLRVDQVPQKDDSTCNSTVETRAQKARTECARKSRSEII
 DGTSEMNEGKRSQKTPSTPRRVQTGAASPHGIQEKLVVDKVTQRKDDSTWNSEVMRVQKARTKARK
 SRSKEKKKEDICSSSKRRFQKNIHRRGPKSDTVDFHCSKLPVTCGEAKGILYKKMKHGS SVK CIRNE
 DGTWLT PNEFEVEGKGRNAKNWRNIRCEGMTLGELLKSGLLLCPPRINLKRELNSK

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_004510

ORF Size: 1641 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_004510.2](#), [NP_004501.2](#)

RefSeq Size: 1962 bp

RefSeq ORF: 1650 bp

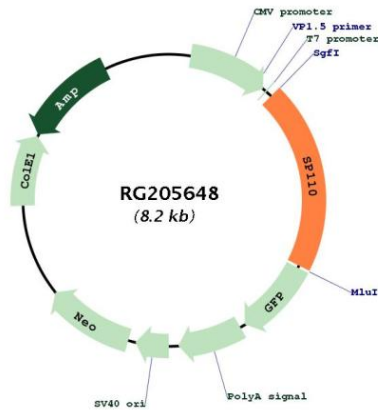
Locus ID: 3431

Cytogenetics: 2q37.1

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]

Product images:



Circular map for RG205648