

Product datasheet for **SC315715**

SPI1 (NM_001080547) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPI1 (NM_001080547) Human Untagged Clone
Tag:	Tag Free
Symbol:	SPI1
Synonyms:	OF; PU.1; SFPI1; SPI-1; SPI-A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127924 sequence for NM_003120 edited (data generated by NextGen Sequencing) ATGTTACAGGCGTCAAAATGGAAGGGTTTCCCCTCGTCCCCCTCCATCAGAAGACCTG GTGCCCTATGACACGGATCTATACCAACGCCAAACGCACGAGTATTACCCCTATCTCAGC AGTGATGGGGAGAGCCATAGCGACCATTACTGGGACTTCCACCCCAACCGTGCACAGC GAGTTCGAGAGCTTCGCCGAGAACAATTACGGAGCTCCAGAGCGTGCAGCCCCGCGAG CTGCAGCAGCTCTACGCCACATGGAGCTGGAGCAGATGCACGTCCTCGATACCCCATG GTGCCACCCATCCCAGTCTTGGCCACCAGGTCTCCTACCTGCCCGGATGTGCCTCCAG TACCCATCCCTGTCCCCAGCCAGCCAGCTCAGATGAGGAGGAGGGCGAGCGGCAGAGC CCCCACTGGAGGTGTCTGACGGCGAGGGCGGATGGCTGGAGCCCGGGCCTGGGCTCCTG CCTGGGGAGACAGGCAGCAAGAAGAAGATCCGCCTGTACAGTTCCTGTTGGACCTGCTC CGCAGCGGCGACATGAAGGACAGCATCTGGTGGGTGGACAAGGACAAGGGCACCTTCCAG TTCTCGTCCAAGCACAAGGAGGCGCTGGCGCACCGCTGGGGCATCCAGAAGGGCAACCGC AAGAAGATGACCTACCAGAAGATGGCGCGCGCTGCGCAACTACGGCAAGACGGGGCAG GTCAAGAAGGTGAAGAAGAAGCTCACCTACCAGTTCAGCGGCGAAGTGCTGGGCCGCGGG GGCCTGGCCGAGCGGCCACCCGCCCCACTGA
	Clone variation with respect to NM_003120.2
Restriction Sites:	NotI-NotI
ACCN:	NM_001080547
Insert Size:	1500 bp



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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001080547.1](#), [NP_001074016.1](#)

RefSeq Size: 1426 bp

RefSeq ORF: 816 bp

Locus ID: 6688

UniProt ID: [P17947](#)

Cytogenetics: 11p11.2

Protein Families: Transcription Factors

Protein Pathways: Acute myeloid leukemia, Pathways in cancer

Gene Summary:

This gene encodes an ETS-domain transcription factor that activates gene expression during myeloid and B-lymphoid cell development. The nuclear protein binds to a purine-rich sequence known as the PU-box found near the promoters of target genes, and regulates their expression in coordination with other transcription factors and cofactors. The protein can also regulate alternative splicing of target genes. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).