

## Product datasheet for **RG217488**

### **SPI1 (NM\_001080547) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SPI1 (NM_001080547) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SPI1
Synonyms:	OF; PU.1; SFPI1; SPI-1; SPI-A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217488 representing NM_001080547 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTACAGGCGTGCAAATGGAAGGTTTCCCCTCGTCCCCCTCAGCCATCAGAAGACCTGGTGCCT  
ATGACACGGATCTATACCAACGCCAAACGCACGAGTATTACCCCTATCTCAGCAGTGATGGGAGAGCCA  
TAGCGACCATTACTGGGACTTCCACCCACCACGTGCACAGCGAGTTCGAGAGCTTCGCCGAGAACAAC  
TTCACGGAGCTCCAGAGCGTGCAGCCCCGCAGCTGCAGCAGCTCTACCGCCACATGGAGCTGGAGCAGA  
TGCACGTCTCGATACCCCATGGTGCCACCCATCCCAGTCTTGCCACCAGGTCTCTACCTGCCCGG  
GATGTGCCTCCAGTACCCATCCCTGTCCCCAGCCAGCCAGCTCAGATGAGGAGAGGGCGAGCGCGAG  
AGCCCCCACTGGAGGTGTCTGACGCGCAGGCGGATGGCCTGGAGCCCGGCCTGGGCTCCTGCCTGGGG  
AGACAGGCAGCAAGAAGAAGATCCGCCTGTACCAAGTTCCTGTTGGACCTGCTCCGCAGCGGCACATGAA  
GGACAGCATCTGGTGGGTGGACAAGGACAAGGGCACCTTCCAGTTCTCGTCCAAGCACAAGGAGGCGCTG  
GCGCACCCTGGGGCATCCAGAAGGGCAACCGCAAGAAGATGACCTACCAGAAGATGGCGCGCGCTGC  
GCAACTACGGCAAGACGGGCGAGGTCAAGAAGGTGAAGAAGAAGCTCACCTACCAGTTACAGCGCGAAGT  
GCTGGGCCGCGGGGCTGGCCGAGCGGCCACCCGCCAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG217488 representing NM\_001080547  
Red=Cloning site Green=Tags(s)

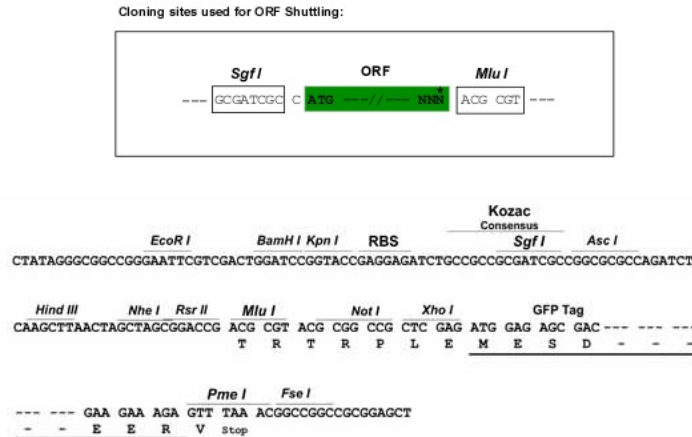
MLQACKMEGFPLVPPQSEDLVPYDIDL YQRQTHEYYPYLSSDGESHSDHYWDFHPPHHVHSEFESFAENN  
 FTELQSVQPPQLQQLYRHMELQMHVLDTPMVPPHPSLGHQVSYLPRMCLQYPSLSPAQPSSDEEEGERQ  
 SPPLEVSVDGEADGLEPGPLLPGETGSKKKIRLYQFLLDLLRSGDMKDSIWWVDKDKGTFQFSSKHKEAL  
 AHRWGIQKGNRKKMTYQKMARALRNYGKTGEVKKVKKKLYQFSGEVLGRGGLAERRHPPH

TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2768\\_e04.zip](https://cdn.origene.com/chromatograms/ja2768_e04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001080547

**ORF Size:** 813 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\\_001080547.2](#)

**RefSeq Size:** 1426 bp

**RefSeq ORF:** 816 bp

**Locus ID:** 6688

**UniProt ID:** [P17947](#)

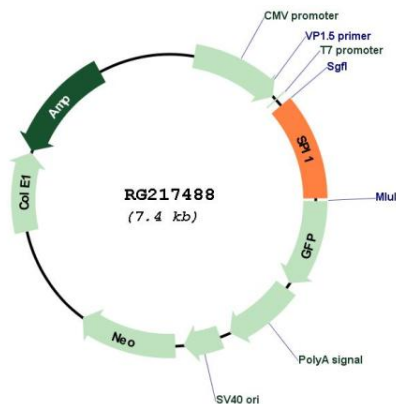
**Cytogenetics:** 11p11.2

**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]

### Product images:



Circular map for RG217488