OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC115408

SPDEF (NM_012391) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPDEF (NM_012391) Human Untagged Clone
Tag:	Tag Free
Symbol:	SPDEF
Synonyms:	bA375E1.3; PDEF
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene sequence for NM_012391 edited
GAATTCGGCACGAGGCTGACTTCCTCCCAGCACATTCCTGCACTCTGCCGTGTCCACACT
GCCCCACAGACCCAGTCCTCCAAGCCTGCTGCCAGCTCCCTGCAAGCCCCTCAGGTTGGG
CCTTGCCACGGTGCCAGCAGGCAGCCCTGGGCTGGGGGTAGGGGACTCCCTACAGGCACG
CAGCCCTGAGACCTCAGAGGGCCACCCCTTGAGGGTGGCCAGGCCCCCAGTGGCCAACCT
GAGTGCTGCCTCTGCCACCAGCCCTGCTGGCCCCTGGTTCCGCTGGCCCCCCAGATGCCT
GGCTGAGACACGCCAGTGGCCTCAGCTGCCCACACCTCTTCCCGGCCCCTGAAGTTGGCA
CTGCAGCAGACAGCTCCCTGGGCACCAGGCAGCTAACAGACACAGCCGCCAGCCCAAACA
GCAGCGGCATGGGCAGCGCCAGCCCGGGTCTGAGCAGCGTATCCCCCAGCCACCTCCTGC
TGCCCCCCGACACGGTGTCGCGGACAGGCTTGGAGAAGGCGGCAGCGGGGGCAGTGGGTC
TCGAGAGACGGGACTGGAGTCCCAGTCCACCCGCCACGCCCGAGCAGGGCCTGTCCGCCT
TCTACCTCTCCTACTTTGACATGCTGTACCCTGAGGACAGCAGCTGGGCAGCCAAGGCCC
CTGGGGCCAGCAGTCGGGAGGAGCCACCTGAGGAGCCTGAGCAGTGCCCGGTCATTGACA
GCCAAGCCCCAGCGGGCAGCCTGGACTTGGTGCCCGGCGGGCTGACCTTGGAGGAGCACT
CGCTGGAGCAGGTGCAGTCCATGGTGGTGGGCGAAGTGCTCAAGGACATCGAGACGGCCT
GCAAGCTGCTCAACATCACCGCAGATCCCATGGACTGGAGCCCCAGCAATGTGCAGAAGT
GGCTCCTGTGGACAGAGCACCAATACCGGCTGCCCCCCATGGGCAAGGCCTTCCAGGAGC
TGGCGGGCAAGGAGCTGTGCGCCATGTCGGAGGAGCAGTTCCGCCAGCGCTCGCCCCTGG
GTGGGGATGTGCTGCACGCCCACCTGGACATCTGGAAGTCAGCGGCCTGGATGAAAGAGC
GGACTTCACCTGGGGCGATTCACTACTGTGCCTCGACCAGTGAGGAGAGCTGGACCGACA
GCGAGGTGGACTCATCATGCTCCGGGCAGCCCATCCACCTGTGGCAGTTCCTCAAGGAGT
TGCTACTCAAGCCCCACAGCTATGGCCGCTTCATTAGGTGGCTCAACAAGGAGAAGGGCA
TCTTCAAAATTGAGGACTCAGCCCAGGTGGCCCGGCTGTGGGGCATCCGCAAGAACCGTC
CCGCCATGAACTACGACAAGCTGAGCCGCTCCATCCGCCAGTATTACAAGAAGGGCATCA
TCCGGAAGCCAGACATCTCCCAGCGCCTCGTCTACCAGTTCGTGCACCCCATCTGAGTGC
CTGGCCCAGGGCCTGAAACCCGCCCTCAGGGGCCTCTCTCCTGCCTGCCCTGCCTCAGCC
AGGCCCTGAGATGGGGGAAAACGGGCAGTCTGCTCTGCTGCTCTGACCTTCCAGAGCCCA
AGGTCAGGGAGGGGCAACCAACTGCCCCAGGGGGATATGGGTCCTCTGGGGCCTTCGGGA
CCCTGGGGCAGGGGTGCTTCCTCCTCAGGCCCAGCTGCTCCCCTGGAGGACAGAGGGAGA
CAGGGCTGCTCCCCAACACCTGCCTCTGACCCCAGCATTTCCAGAGCAGAGCCTACAGAA
GGGCAGTGACTCGACAAAGGCCACAGGCAGTCCAGGCCTCTCTCTGCTCCATCCCCCTGC
CTCCCATTCTGCACCACACCTGGCATGGTGCAGGGAGACATCTGCACCCCTGAGTTGGGC
AGCCAGGAGTGCCCCCGGGAATGGATAATAAAGATACTAGAGAACTGAAAAAAAAAAAAA
AAAAAAAACTCGAC

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_012391 unedited
GTTCAAAATTGTATACGACTCATATAGGGCGGCCGCGAATTCGCACGAGGCTGACTTCCT
CCCAGCACATTCCTGCACTCTGCCGTGTCCACACTGCCCCACAGACCCAGTCCTCCAAGC
CTGCTGCCAGCTCCCTGCAAGCCCCTCAGGTTGGGCCTTGCCACGGTGCCAGCAGGCAGC
CCTGGGCTGGGGGTAGGGGACTCCCTACAGGCACGCAGCCCTGAGACCTCAGAGGGCCAC
CCCTTGAGGGTGGCCAGGCCCCCAGTGGCCAACCTGAGTGCTGCCTCTGCCACCAGCCCT
GCTGGCCCCTGGTTCCGCTGGCCCCCCAGATGCCTGGCTGAGACACGCCAGTGGCCTCAG
CTGCCCACACCTCTTCCCGGCCCCTGAAGTTGGCACTGCAGCAGACAGCTCCCTGGGCAC
CAGGCAGCTAACAGACACAGCCGCCAGCCCAAACAGCAGCGGCATGGGCAGCGCCAGCCC
GGGTCTGAGCAGCGTATCCCCCAGCCACCTCCTGCTGCCCCCCGACACGGTGTCGCGGAC
AGGCTTGGAGAAGGCGGCAGCGGGGGCAGTGGGTCTCGAGAGACGGGACTGGAGTCCCAG
TCCACCCGCCACGCCCGAGCAGGGCCTGTCCGCCTTCTACCTCTCCTACTTTGACATGCT
GTACCCTGAGGACAGCAGCTGGGCAGCCAAGGCCCCTGGGGCCAGCAGTCGGGAGGAGCC
ACCTGAGGAGCCTGAGCAGTGCCCGGTCATTGACAGCCAAGCCCCAGCGGGCAGCCTGGA
CTTGGTGCCCGGCGGGCTGACCTTGGAGGAGCACTCGCTGGAGCAGGTGCCATTCATGGG
TGGTGGGCGAAGTGCTCAAGGACTCGAGACGGCCTGCAAGCTGCTAAAATTCACCGCAGT
TCCATGGACTGGAGCCCCACCATGT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_012391 unedited
ACGCGGCCGCATTTTAGNATCGAGTTTTTTTTTTTTTTTTTTTTTACAGTTCTCTAGTAT
CTTTATTATCCATTCCCGGGGGCACTCCTGGCTGCCCAACTCAGGGGTGCAGATGTCTCC
CTGCACCATGCCAGGTGTGGTGCAAAATGGGAGGCAGGGGGATGGAGCAGAGAGAGGCCT
GGACTGCCTGTGGCCTTTGTCGAGTCACTGCCCTTCTGTAGGCTCTGCTCTGGAAATGCT
GGGGTCAAAGGCAGGTGTTGGGGAGCAGCCCTGTCTCCCTCTGTCCTCCAGGGGAGCAGC
TGGGCCTGAGGAGGAAGCACCCCTGCCCCAGGGTCCCGAAGGCCCCAGAGGACCCATATC
CCCCTGGGGCAGTTGGTTGCCCCTCCCTGACCTTGGGCTCTGGAAGGTCAGAGCAGCAGA
GCAGACTGCCCGTTTTCCCCCATCTCAGGGCCTGTCTGAGGCAGGGCAGGCAGGAGAGAG
GCCCCTGAGGGCGGGTTTCAGGCCCTGGGCCAGGCACTCAGATGGGGTGCACGAACTGGT
AAACGAGGCGCTGGGAGATGCCTGGCTTCCGGATGATGCCCTTCTTGTAATACTGGCGGA
TGGAGCGGCTCACCTTGCTCCACTTTATGGTGGGACGGTTCCTGCGGATGCCCCACAGCC
GGGCCACCTGGGCTGAGTCCTCAATTTTGAAGATGCCCTTCTCCTTGTTGAGCCATCTAT
TGAAGCGGCCCTAGCTGCGCGGCTTGAGTACAACTCCCTGTAGAACTGCCCAGGTGGATG
GGCTCGCCGAAACATGATGAGTCACCTCGCTGCCGGTCCAAGTTTCTCACTGGACGAAGG
AAAGTATTGATTGCCCCAGGGGAACCCCGTTCTTTTTTCCAGCCGCTGACTTCCAATGTA
CAGGCGGGCGCCCCAACATTCCCACCGAGCGGACGCCTGTG

Restriction Sites: NotI-NotI

ACCN: NM_012391

Insert Size: 2100 bp

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

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_012391.1, NP_036523.1

RefSeq Size: 1894 bp

RefSeq ORF:	1008 bp
Locus ID:	25803
UniProt ID:	O95238
Cytogenetics:	6p21.31
Domains:	ETS, SAM_PNT
Protein Families:	Transcription Factors
Gene Summary:	The protein encoded by this gene belongs to the ETS family of transcription factors. It is highly expressed in the prostate epithelial cells, and functions as an androgen-independent transactivator of prostate-specific antigen (PSA) promoter. Higher expression of this protein has also been reported in brain, breast, lung and ovarian tumors, compared to the corresponding normal tissues, and it shows better tumor-association than other cancer-associated molecules, making it a more suitable target for developing specific cancer therapies. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011] Transcript Variant: This variant (1) encodes the longer isoform (1).