

Product datasheet for **RG232468**

SPDEF (NM_001252294) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPDEF (NM_001252294) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SPDEF
Synonyms:	bA375E1.3; PDEF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG232468 representing NM_001252294 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCAGCGCCAGCCCGGGTCTGAGCAGCGTATCCCCAGCCACCTCCTGCTGCCCGACACGGTGT
CGCGGACAGGCTTGAGAAAGCGGCAGCGGGGAGTGGGTCTCGAGAGACGGGACTGGAGTCCCAGTCC
ACCCGCCACGCCGAGCAGGGCCTGTCCGCCTTCTACCTCTCTACTTTGACATGCTGTACCCTGAGGAC
AGCAGCTGGGCAGCCAAGCCCCGCGGGCAGCAGTCGGGAGGAGCCACCTGAGGAGCCTGAGCAGTGCC
CGGTATTGACAGCCAAGCCCCAGCGGGCAGCCTGGACTTGGTGCCCGGGGGCTGACCTGGAGGAGCA
CTCGCTGGAGCAGGTGCAGTCCATGGTGGTGGGCGAAGTCTCAAGGACATCGAGACGGCCTGCAAGCTG
CTCAACATCACCGCAGATCCCATGGACTGGAGCCCCAGCAATGTGCAGAAGTGGCTCCTGTGGACAGAGC
ACCAATACCGGCTGCCCCCATGGGCAAGGCCTTCCAGGAGCTGGCGGGCAAGGAGCTGTGCGCCATGTC
GGAGGAGCAGTTCGCCAGCGCTCGCCCCGGTGGGATGTGCTGCACGCCACCTGGACATCTGGAAG
TCAGCCTCGACCAGTGAGGAGAGCTGGACCAGCAGCGAGGTGGACTCATCATGCTCCGGGACGCCATCC
ACCTGTGGCAGTTCCTCAAGGAGTTGCTACTCAAGCCCCACAGCTATGGCCGCTTATTAGTGGCTCAA
CAAGGAGAAGGGCATCTTCAAAATTGAGGACTCAGCCAGGTGGCCCGGCTGTGGGCATCCGCAAGAAC
CGTCCGCCATGAACTACGACAAGCTGAGCCGCTCCATCCGCCAGTATTACAAGAAGGGCATCATCCGGA
AGCCAGACATCTCCAGCGCCTCGTCTACCAGTTCGTGCACCCCATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232468 representing NM_001252294
Red=Cloning site Green=Tags(s)

MGSASPLSSVSPSHLLLPPDVTVSRGLEKAAAGAVGLERRDWPSPPATPEQGLSAFYLSYFDMLYPED
 SSWAAKAPGASSREEPPEEQCPVIDSQAPAGSLDLVPGGLTLEEHSLQVQSMVVGEVLKDIETACKL
 LNITADPMDWSPSNVQKWLWTEHQYRLPPMGKAFQELAGKELCAMSEEQFRQRSPLGGDVLHAHLDIWK
 SASTSEESWTDSEVDSSCSGQPIHLWQFLKELLKPHSYGRFIRWLNKEKGIFKIEDSAQVARLWGIRKN
 RPAMNYDKLSRSIRQYYKGGIIRKPDISQRLVYQFVHPI

TRTRPLE - GFP Tag - V

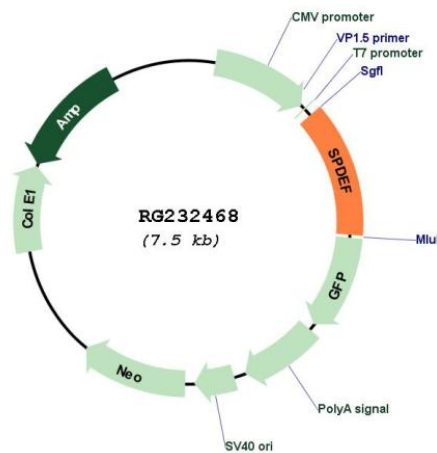
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001252294

ORF Size: 957 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:	<ol style="list-style-type: none">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_001252294.1 , NP_001239223.1
RefSeq Size:	1866 bp
RefSeq ORF:	960 bp
Locus ID:	25803
UniProt ID:	O95238
Cytogenetics:	6p21.31
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]