

Product datasheet for **RG211827**

SPRR2B (NM_001017418) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Tag: TurboGFP

Symbol: SPRR2B

Mammalian Cell Selection: Neomycin

Vector: pCMV6-AC-GFP (PSI00010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG211827 representing NM_001017418
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGTCTTATCAACAGCAGCAGTGCAAGCAGCCCTGCCAGCCACCTCCTGTGTGCCCCACGCCAAAGTGCC
CAGAGCCATGTCCACCCCGAAGTGCCTGAGCCCTGCCACCACCAAAGTGTCCACAGCCCTGCCACC
TCAGCAGTGCCAGCAGAAATATCCTCCTGTGACACCTCCCCACCCTGCCAGCCAAAGTATCCACCGAAG
AGCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG211827 representing NM_001017418
Red=Cloning site Green=Tags(s)

MSYQQQCKQPCQPPVCPTPKCPEPCPPKCPPEPCPPKCPQPCPPQQCQKYPPVTPSPPCQPKYPPK
SK

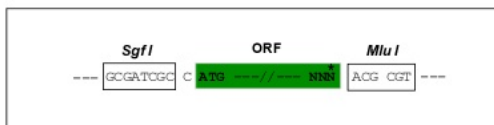
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:

Cloning sites used for ORF Shuttling:



EcoR I
BamH I *Kpn I*
RBS
Kozac Consensus
Sgf I
Asc I

CTATAGGGCGGCCGGGAATTCTGCTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCATCGCCGGCGCCGCAGATCT

Hind III
Nhe I
Rsr II
Mlu I
Not I
Xho I
GFP Tag

CAAGCTTAAC TAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG ACG GAC ---
 T R T R P L E M E S D - - -

Pme I
Fse I

--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGCGGAGCT
 - - - E E R V Stop

ACCN: NM_001017418

ORF Size: 216 bp

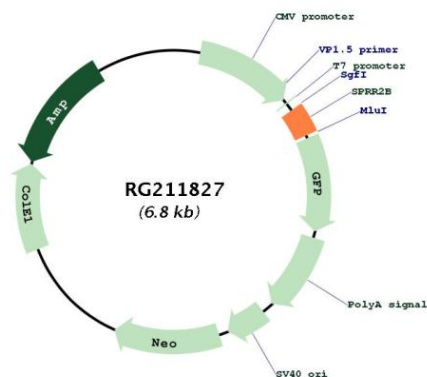
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001017418.3</u>
RefSeq Size:	662 bp
RefSeq ORF:	219 bp
Locus ID:	6701
UniProt ID:	<u>P35325</u>
Cytogenetics:	1q21.3
Gene Summary:	Cross-linked envelope protein of keratinocytes. It is a keratinocyte protein that first appears in the cell cytosol, but ultimately becomes cross-linked to membrane proteins by transglutaminase. All that results in the formation of an insoluble envelope beneath the plasma membrane.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG211827