

Product datasheet for **MG200942**

Sprr1a (NM_009264) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sprr1a (NM_009264) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Sprr1a
Synonyms: AI528815; mSPRR1A; SPR1a
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG200942 representing NM_009264
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGTTCACCAGCAGAAGCAGCCCTGCACTGTACCTCCTCAGCTGCACCAGCAGCAGGTGAAGCAGC
 CTTGCCAGCCACCACCCAGGAACCTTGTGCCCAAAACCAAGGATCCCTGCCACCCTGTTCTGAGCC
 CTGCAACCCCAAGGGCCAGAGCCCTGCCACCCCAAGGCACCCGAGCCCTGCCACCCCAAGGCACCTGAG
 CCCTGCAACCCCAAGGTGCCAGAGCCCTGCCAGCCTAAGGTGCCAGAGCCCTGCCAGCCTAAGGTGCCAG
 AGCCCTGCAACCCCAAGGTGCCAGAGCCCTGCCAACCTAAGGCACCAGAGCCTTGCCACCCCAAGGCGCC
 TGAGCCCTGCCACCCTGTTGTTCCGAGCCCTGCCCTCAACTGTCACTCCATCACCATACCAGCAGAAG
 ACAAAGCAGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200942 representing NM_009264
 Red=Cloning site Green=Tags(s)

MSSHQQKQPCTVPPQLHQQQVKQPCPPPEPCAPKTKDPCHPVPEPCNPKGPEPCHPKAPEPCHPKAPE
 PCNPKVPEPCQPKVPEPCQPKVPEPCNPKVPEPCQPKAPEPCHPKAPEPCHPVVPEPCPSTVTPSPYQQK
 TKQK

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja3190_f04.zip

Restriction Sites: Sgfl-MluI



[View online >](#)

Cloning Scheme:


ACCN: NM_009264

ORF Size: 432 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](#)

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_009264.2, NP_033290.1](#)

RefSeq Size: 807 bp

RefSeq ORF: 435 bp

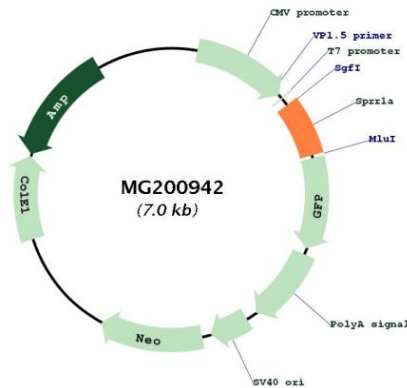
Locus ID: 20753

UniProt ID: [Q62266](#)

Cytogenetics: 3 40.14 cM

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. May participate widely in the construction of cell envelopes in cornifying epithelia characterized by either increased thickness or a requirement for extreme flexibility. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG200942