

Product datasheet for **RG209964**

SPARC (NM_003118) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SPARC (NM_003118) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SPARC
Synonyms: BM-40; OI17; ON; ONT
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG209964 representing NM_003118
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGGGCCTGGATCTTCTTTCTCCTTTGCCTGGCCGGGAGGGCCTTGGCAGCCCCTCAGCAAGAAGCCC
 TGCCTGATGAGACAGAGGTGGTGAAGAACTGTGGCAGAGGTGACTGAGGTATCTGTGGGAGCTAATCC
 TGTCCAGGTGGAAGTAGGAGAATTTGATGATGGTGCAGAGGAAACCGAAGAGGAGGTGGTGGCGAAAAT
 CCCTGCCAGAACCACCACTGCAAAACACGGCAAGGTGTGCGAGCTGGATGAGAACAACACCCCATGTGCG
 TGTGCCAGGACCCACCAGCTGCCAGCCCCATTGGCGAGTTTGAGAAGGTGTGCGCAATGACAACAA
 GACCTTCGACTCTTCTGCCACTTCTTTGCCACAAAGTGACCCCTGGAGGGCACCAAGAAGGCCACAAG
 CTCCACCTGGACTACATCGGGCCTTGCAAATACATCCCCCTTGCTGGACTCTGAGCTGACCGAATTCC
 CCCTGCGCATGCGGGACTGGCTCAAGAAGTCTGGTCAACCTGTATGAGAGGGATGAGGACAACAACCT
 TCTGACTGAGAAGCAGAAGCTGCGGGTGAAGAAGATCCATGAGAATGAGAAGCGCCTGGAGGCAGGAGAC
 CACCCCGTGGAGCTGCTGGCCGGGACTTCGAGAAGAATAACATGTACATCTTCCCTGTACTGCTGGC
 AGTTTCGGCCAGCTGGACCAGCACCCATTGACGGGTACCTCTCCACACCGAGCTGGCTCCACTGCGTGC
 TCCCCTCATCCCCATGGAGCATTGCACCACCCGCTTTTCGAGACCTGTGACCTGGACAATGACAAGTAC
 ATCGCCCTGGATGAGTGGCCGGCTGCTTCGGCATCAAGCAGAAGGATATCGACAAGGATCTTGTGATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209964 representing NM_003118
Red=Cloning site Green=Tags(s)

MRAWIFFLLCLAGRALAAPQQEALPDETEVVEETVAEVTEVSVGANPVQVEVGEFDDGAEETEEVVAEN
 PCQNHHCCKHGKVCLENDNTPMCVCQDPTSCPAPIGEFEKVCSDNKTFDSSCHFFATKCTLEGTKKGHK
 LHLDYIGPCKYIPPCLDSELETFPLRMRDWLKNVLVTLYERDEDNLLTEKQKLRVKKIHENEKRLAEGD
 HPVELLARDFEKNYNMYIFPVHWQFGQLDQHPIDGYLSHTELAPLRAPLIPMEHCTTRFFETCDLNDKY
 IALDEWAGCFGIKQKIDKDLVI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003118

ORF Size: 909 bp

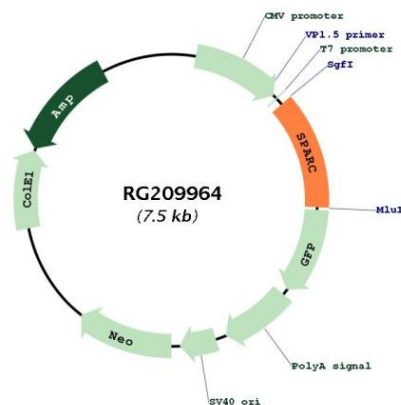
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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:	<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:	<u>NM_003118.4</u>
RefSeq Size:	3178 bp
RefSeq ORF:	912 bp
Locus ID:	6678
UniProt ID:	<u>P09486</u>
Cytogenetics:	5q33.1
Domains:	kazal, FOLN
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes a cysteine-rich acidic matrix-associated protein. The encoded protein is required for the collagen in bone to become calcified but is also involved in extracellular matrix synthesis and promotion of changes to cell shape. The gene product has been associated with tumor suppression but has also been correlated with metastasis based on changes to cell shape which can promote tumor cell invasion. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2015]

Product images:



Circular map for RG209964