

Product datasheet for **RG205743**

SPRING1 (NM_024738) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SPRING1 (NM_024738) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SPRING1
Synonyms: C12orf49; LUR1; POST1; SPRING
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG205743 representing NM_024738
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGAACCTGGCGCCATGGTGTGGCGCGCTTCTGCGGAAGAGGTGGGTGCTCGCCCTGGTCTTCG
GGCTGTCGCTCGTCTACTTCCTCAGCAGCACCTTCAAGCAGGAGGAGAGGGCAGTGAGAGATAGGAATCT
CCTCCAGGTTTCATGACCATAATCAGCCCATCCCGTGGAAAGTGCAGTTAACTTGGGCAATAGCAGTCGT
CCGAGCAATCAGTGCCGCACTCCATTCAAGGGAAGCACCTCATCAGGATGAACCGGCTACGTTTGGC
AGAGGAAGGATTTGCTGGTAAATGGCTGCTGTAATGTCAACGTCCTAGCACGAAGCAGTACTGCTGTGA
TGGCTGCTGGCCCAACGGCTGCTGCAGCGCCTATGAGTACTGTGTCTCCTGCTGCCTGCAGCCCAACAAG
CAACTTCTCCTGGAGCGCTTCTCAACCGGCAGCCGTGGCATTCCAGAACCTTTCATGGCAGTCGAAG
ATCACTTTGAGTTGTGCCTGGCCAAATGCAGGACCTCATCTCAGAGCGTGCAGCATGAGAACACCTACCG
GGACCCCATAGCAAAGTATTGCTATGGAGAAAGCCCGCCGAGCTTTCCTCCGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG205743 representing NM_024738
Red=Cloning site Green=Tags(s)

MVNLAAMVWRRLLRKRWVLAALVFGLSLVYFLSSTFKQEERAVRDRNLLQVHDHNQIPWKVQFNLGNSSR
PSNQCRNSIQGKHLITDELGYVCERKDLLVNGCCNVNVPSTKQYCCDGCWPNGCCSAYEYCVSCCLQPNK
QLLLERFLNRAAVAFQNLFMAVEDHFELCLAKCRTSSQSVQHENTYRDPYAKYCYGESPELFP

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



Cloning Scheme:


ACCN: NM_024738

ORF Size: 615 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.

RefSeq: [NM_024738.4](#)

RefSeq Size: 2798 bp

RefSeq ORF: 618 bp

Locus ID: 79794

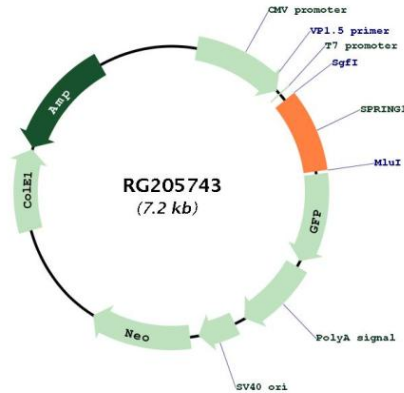
UniProt ID: [Q9H741](#)

Cytogenetics: 12q24.22

Protein Families: Transmembrane

Gene Summary: Positively regulates hepatic SREBP signaling pathway by modulating the proper localization of SCAP (SREBP cleavage-activating protein) to the endoplasmic reticulum, thereby controlling the level of functional SCAP.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG205743