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Product datasheet for RG232322

RSPO1 (NM_001242908) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RSPO1 (NM_001242908) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RSPO1
Synonyms:	CRISTIN3; RSPO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG232322 representing NM_001242908
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGGCTTGGGCTGTGTGTGGTGGCCCTGGTTCTGAGCTGGACGCACCTCACCATCAGCAGCCGGGGGA
TCAAGGGGAAAAGGCAGAGGCGGATCAGTGCCGAGGGGAGCCAGGCCTGTGCCAAAGGCTGTGAGCTCTG
CTCTGAAGTCAACGGCTGCCTCAAGTGCTCACCCAAGCTGTTCATCCTGCTGGAGAGGAACGACATCCGC
CAGGTGGGCGTCTGCTTGCCGTCCTGCCCACCTGGATACTTCGACGCCCGCAACCCCGACATGAACAAGT
GCATCAAATGCAAGATCGAGCACTGTGAGGCCTGCTTCAGCCATAACTTCTGCACCAAGTGTAAGGAGGG
CTTGTACCTGCACAAGGGCCGCTGCTATCCAGCTTGTCCCGAGGGCTCCTCAGCTGCCAATGGCACCATG
GAGTGCAGTAGTCCTGCGCAATGTGAAATGAGCGAGTGGTCTCCGTGGGGGCCCTGCTCCAAGAAGCAGC
AGCTCTGTGGTTTCCGGAGGGGCTCCGAGGAGCGGACACGCAGGGTGCTACATGCCCCTGTGGGGGACCA
TGCTGCCTGCTCTGACACCAAGGAGACCCGGAGGTGCACAGTGAGGAGAGTGCCGTGTCCTGAGGGGCAG
AAGAGGAGGAAGGGAGGCCAGGGCCGGCGGGAGAATGCCAACAGGAACCTGGCCAGGAAGGAGAGCAAGG
AGGCGGGTGCTGGCTCTCGAAGACGCAAGGGGCAGCAACAGCAGCAGCAGCAAGGGACAGTGGGGCCACT
CACATCTGCAGGGCCTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

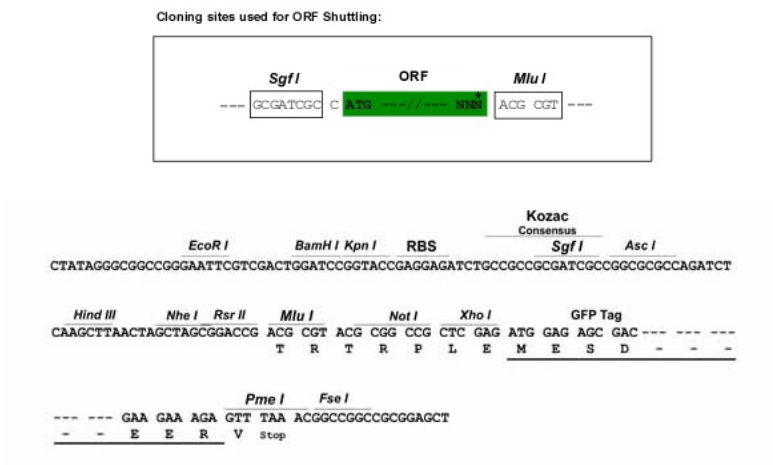
>RG232322 representing NM_001242908
Red=Cloning site Green=Tags(s)

MRLGLCVVALVLSWTHLTISSRGIKGKRQRRISAEGSQACAKGCELCSEVNGCLKCSPKLFILLERNDIR
QVGVCLPSCPPGYFDARNPDMNKCIKCKIEHCEACFSHNFCTKCKEGLYLHKGRCYPACPEGSSAANGTM
ECSSPAQCEMSEWSPWGPCSKKQQLCGFRRGSEERTRRVLHAPVGDHAACSDTKETRRCTVRRVPCPEGQ
KRRKGGQGRRENANRNLARKESKEAGAGSRRRKGQQQQQQQGTVGPLTSAGPA

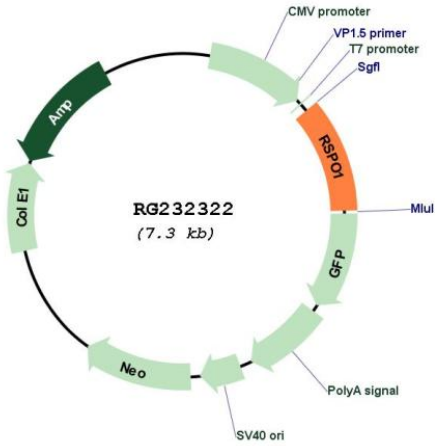
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001242908

ORF Size: 789 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_001242908.2

RefSeq Size: 2910 bp

RefSeq ORF: 792 bp

Locus ID: 284654

UniProt ID: Q2MKA7

Cytogenetics: 1p34.3

Protein Families: Secreted Protein

Gene Summary: This gene encodes a secreted activator protein with two cysteine-rich, furin-like domains and one thrombospondin type 1 domain. The encoded protein is a ligand for leucine-rich repeat-containing G-protein coupled receptors (LGR proteins) and positively regulates the Wnt signaling pathway. In mice, the protein induces the rapid onset of crypt cell proliferation and increases intestinal epithelial healing, providing a protective effect against chemotherapy-induced adverse effects. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2014]