

Product datasheet for **SC302953**

RSPO1 (NM_001038633) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RSPO1 (NM_001038633) Human Untagged Clone
Tag:	Tag Free
Symbol:	RSPO1
Synonyms:	CRISTIN3; RSPO
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_001038633 edited
 GTTAGCAAGAGCCGTGTGCTATCCACCCTCCCCGAGACCACCCCTCCGACCAGGGCCTG
 GAGCTGGCGCGTGACTATGCGGCTTGGGCTGTGTGTGGTGGCCCTGGTTCTGAGCTGGAC
 GCACCTCACCATCAGCAGCCGGGGATCAAGGGGAAAAGGCAGAGCGGATCAGTGCCGA
 GGGGAGCCAGGCCTGTGCCAAAGGCTGTGAGCTCTGCTCTGAAGTCAACGGCTGCCTCAA
 GTGCTCACCCAAGCTGTTTCATCCTGCTGGAGAGGAACGACATCCGCCAGGTGGCGTCTG
 CTTGCCGTCTGCCACCTGGATACTTCGACGCCCGCAACCCCGACATGAACAAGTGCAT
 CAAATGCAAGATCGAGCACTGTGAGGCCTGCTTCAGCCATAACTTCTGCACCAAGTGTA
 GGAGGGCTTGTACCTGCACAAGGGCCGCTGCTATCCAGCTTGTCCGAGGGCTCCTCAGC
 TGCCAATGGCACCATGGAGTGCAGTAGTCTGCGCAATGTGAAATGAGCGAGTGGTCTCC
 GTGGGGCCCTGTCCAAGAAGCAGCAGCTCTGTGGTTTCCGGAGGGGCTCCGAGGAGCG
 GACACGCAGGGTGTACATGCCCTGTGGGGACCATGCTGCCTGCTCTGACACCAAGGA
 GACCCGGAGGTGCACAGTGAAGAGAGTGCCGTGTCTGAGGGGCAGAAGAGGAGGAAGGG
 AGGCCAGGGCCGGCGGGAGAATGCCAACAGGAACCTGGCCAGGAAGGAGCAAGGAGGC
 GGGTGCTGGCTCTCGAAGACGCAAGGGGACGCAACAGCAGCAGCAAGGGACAGTGGG
 GCCACTCACATCTGCAGGGCCTGCCTAGGGACTGTCCAGCCTCCAGGCCATGCAGAA
 AGAGTTCAGTGCTACTCTGCGTGATTCAAGCTTTCCTGA



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001038633 unedited
 NGGGGAAGTTCACATTTGTATACGACTCATATAGGGCGGCCGCGATTGCCCCANAGTGT
 TAGCAAGAGCCGTGTGCTATCCACCCTCCCCGANACCACCCTCCGACCAGGGGCTGGA
 GCTGGCGCGTGACTATGCGGCTTGGGCTGTGTGTGGTGGCCCTGGTTCTGAGCTGGACGC
 ACCTCACCATCAGCAGCCGGGGATCAAGGGGAAAAGGCAGAGCCGGATCAGTGCCGAGG
 GGAGCCAGGCCTGTGCCAAAGGCTGTGAGCTCTGCTCTGAAGTCAACGGCTGCCTCAAGT
 GCTCACCAAGCTGTTTCATCCTGCTGGAGAGGAACGACATCCGCCAGGTGGGCGTCTGCT
 TGCCGCTGCCCCACTGGATACTTCGACGCCCGCAACCCCGACATGAACAAGTGATCA
 AATGCAAGATCGAGCACTGTGAGGCTGCTTCAGCCATAAATTCTGCACCAAGTGTAAAG
 AGGGCTTGTACCTGCACAAGGGCCGCTGCTATCCAGCTTGTCCCGAGGGCTCCTCAGCTG
 CCAATGGCACCATGGAGTGCAGTAGTCTGCGCAATGTGAAATGAGCGAGTGGTCTCCGT
 GGGGGCCCTGCTCCAAGAAGCAGCAGCTCTGTGGTTTCCGGAGGGGCTCCGAGGAGCGGA
 CACGCAGGGTGTACATGCCCTGTGGGGACCATGCTGCCTGCTCTGACACCAAGAACC
 CCGGAGGTGCACAGTGAAGGGAGAGTGCCTGTCTGAGGGGCANAAAGNAGGAAAAG
 GAGGGCCAGGGCCCGNCGGAGAAATGCCAACAGGAACCTGGCCAGNNAAGANAGCAGGA
 NGCCGNNTGCTGGCTCTCGAGAACGCAGGGGGCAGCAACAGCAGCAGN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001038633 unedited
 NGGGCCATTGGNAATGGCACTTCCCAGGNCCAGNANGAGCCTGGGNNAGGGTACAGG
 GNAGCCACCCGGGATCTGTTTCAGGAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGT
 CAGGAAAGCTTGAATCACGCAGAGTAGCACTGAACTCTTCTGCATGGGCTGGAGGCTG
 GACAGTGTCCCTAGGCAGGCCCTGCAGATGTGAGTGGCCCACTGTCCCTGCTGCTGCT
 GCTGTTGTGCCCTTGGCTCTTCGAGAGCCAGCACCCGCTCCTTGCTCTCCTTCTGG
 CCAGGTTCTGTGGCATTCTCCCGCCGCCCTGGCCTCCCTTCTCCTTCTGCCCCCT
 CAGGACACGGCACTCTCCTCACTGTGCACCTCCGGGTCTCCTTGGTGTGACAGCAGGCAG
 CATGGTCCCCACAGGGGCATGTAGCACCTGCGTGTCCGCTCCTCGGAGCCCCTCCGGA
 AACCACAGAGCTGCTGCTTCTGGAGCAGGGCCCCACGGAGACCACTCGCTCATTTTAC
 ATTGCGCAGGACTACTGCACTCCATGGTGCCATTGGCAGCTGAGGAGCCCTCGGGACAAG
 CTGGATAGCAGCGGCCCTGTGTCAGGTACAAGCCCTCCTTACACTTGGTGNCAGAAGTTA
 TGGCTGAAGCAGGCCTCACAGTGTGATCTTGCATTTGATGCACTTGTTCATGTTTCGG
 GTTTGCGGCGGTTTCAAGTATCCAGGTGGGAGGACGGCAAGCAGACGCCACCTGNCC
 GGATGTCGTTCCNTCCAGCAGATGAACAGCCTNNGGGTGAAGCACTTGAAGCAGCCGNTG
 ACTTCAGAGCAGAGCTCACAGNCTTGGCACAGGCCTGGCTCCCCTCGGNACTGATCCGG
 CTCTGGCTTTTN

Restriction Sites:

Please inquire

ACCN:

NM_001038633

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:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_001038633.2</u> , <u>NP_001033722.1</u>
RefSeq Size:	2995 bp
RefSeq ORF:	792 bp
Locus ID:	284654
UniProt ID:	<u>Q2MKA7</u>
Cytogenetics:	1p34.3
Protein Families:	Secreted Protein
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Both variants 1 and 2 encode the same isoform (1).</p>