

Product datasheet for **RC236317**

RSPO2 (NM_001282863) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RSPO2 (NM_001282863) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: RSPO2
Synonyms: CRISTIN2; HHRRD; TETAMS2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236317 representing NM_001282863
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGTTTCGCCTTTCTCCTTTGCCCTCATCATTCTGAACTGCATGGATTACAGCCACTGCCAAGGCA
ACCGATGGAGACGCAGTAAGCGAGGATGCAGAATAGAAAAGTGTGATTCTTGCTTTAGCAAAGACTTTTG
TACCAAGTGCAAAGTAGCTTTTATTTGCATAGAGCCGTTGCTTTGATGAATGTCCAGATGGTTTTGCA
CCATTAGAAGAAACCATGGAATGTGTGGGATGTGAAGTTGGTCATTGGAGCGAATGGGAACTTGTAGCA
GAAATAATCGCACATGTGGATTTAAATGGGGTCTGGAAACAGAACACGGCAAATTTGTTAAAAAGCCAGT
GAAAGACACAATACTGTGTCCAACCATTGCTGAATCCAGGAGATGCAAGATGACAATGAGGCATTGTCCA
GGAGGGGAGAGAACCAAGGGCAAGGAGAAGAGGAACAAGAAAAAGAAAGGAAGCTGATAGAAAGGG
CCAGGAGCAACACAGCGTCTTCTAGCTACAGACAGAGCTAACCAA

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236317 representing NM_001282863
Red=Cloning site Green=Tags(s)

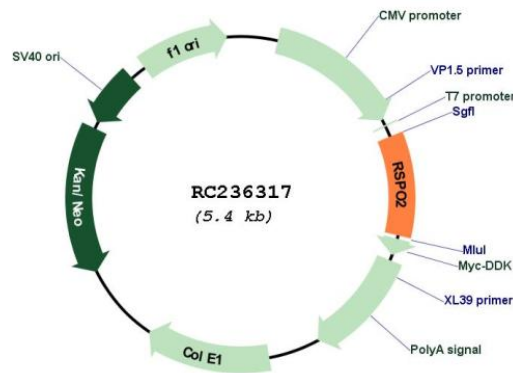
MQFRLFSFALIILN CMDYSHCQGNRWRRSKRGCR IENCDSFC SKDFCTKCKVGFYLHRGRCFDECPDGF A
PLEETMECVGCEVGHWSEWGTCSRNNRTCGFKWGLETRTRQIVKKPVKDTILCPTIAESRRCKMTRHCP
GGKRTPKAKEKRNKKKKRKLIERAQEQHSVFLATDRANQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



Cloning Scheme:

Plasmid Map:


ACCN: NM_001282863

ORF Size: 537 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:	<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_001282863.1</u> , <u>NP_001269792.1</u>
RefSeq Size:	2777 bp
RefSeq ORF:	540 bp
Locus ID:	340419
UniProt ID:	<u>Q6UXX9</u>
Cytogenetics:	8q23.1
Protein Families:	Secreted Protein
MW:	21.4 kDa
Gene Summary:	This gene encodes a member of the R-spondin family of proteins. These proteins are secreted ligands of leucine-rich repeat containing G protein-coupled receptors that enhance Wnt signaling through the inhibition of ubiquitin E3 ligases. A chromosomal translocation including this locus that results in the formation of a gene fusion has been identified in multiple human cancers. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]