

Product datasheet for MR226539

Rspo1 (NM_138683) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rspo1 (NM_138683) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Rspo1
Synonyms: R-spondin; Rspodin
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR226539 representing NM_138683
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGGCTTGGGCTGTGCGTGGTGGCCCTGGTTCTGAGCTGGACACACATCGCCGTGGGCAGCCGGGGGA
TCAAGGGCAAGAGACAGAGGCGGATCAGTGCTGAGGGGAGCCAAGCCTGCGCCAAGGGCTGTGAGCTCTG
TTCAGAAGTCAACGGTTGCCTCAAGTGCTCGCCAAGCTTTTATTCTGCTGGAGAGGAACGACATCCGC
CAGGTGGGCGTCTGCCTGCCGTCTGCCACCTGGATACTTTGATGCCCGCAACCCCGACATGAACAAAT
GCATCAAATGCAAGATCGAGCACTGTGAGGCCTGCTTCAGCCACAACCTTCTGCACCAAGTGTGAGGAGG
CTTGACTTACACAAGGGCCGCTGCTATCCAGCCTGCCCTGAGGGCTCTACAGCCGCTAACAGCACCATG
GAGTGCAGGAGTCTGCACAATGTGAAATGAGCGAGTGGTCCCGTGGGGACCCTGCTCCAAGAAGAGGA
AGCTGTGCGGTTTCCGGAAGGGATCGGAAGAGCGGACACGCAGAGTGCTCCATGCTCCCGGGGAGACCA
CACCACCTGCTCCGACACCAAAGAGACCCGCAAGTGTACCGTGCGCAGGACGCCCTGCCAGAGGGGCGAG
AAGAGGAGGAAGGGGGCCAGGGCCGAGGGAGAATGCCAACAGGCATCCGGCCAGGAAGAACAGCAAGG
AGCCGGCTCCAACCTCTCGGAGACACAAGGGCAACAGCAGCCACAGCCAGGGACAACAGGGCCACTCAC
ATCAGTAGGACCTACCTGGGCACAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR226539 representing NM_138683
Red=Cloning site Green=Tags(s)

MRLGLCVVALVLSWTHIAVGSRGIKGKRQRRISAEGSQACAKGCELCSEVNGCLKCSPKLFILLERNDIR
 QVGVCLPSCPPGYFDARNPDMNKCIKCKIEHCEACFSHNFCCKQEGLYLHKGRCPACPEGSTAANSTM
 ECGSPAQCEMSEWSPWGPCSKKRKLCGFRKGSEERTRRVLHAPGGDHTTCSDTKETRKCTVRRTPCEPQ
 KRRKGGQGRRENANRHPARKNSKEPGSNSRRHKGQQQPQPGTTGPLTSVGPTWAQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_138683

ORF Size: 795 bp

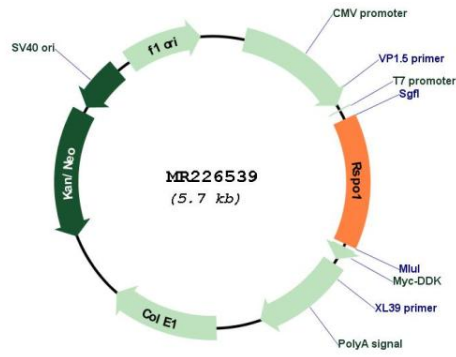
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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_138683.2, NP_619624.2</u>
RefSeq Size:	1834 bp
RefSeq ORF:	798 bp
Locus ID:	192199
UniProt ID:	<u>Q9Z132</u>
Cytogenetics:	4 D2.2
MW:	29.7 kDa
Gene Summary:	Activator of the canonical Wnt signaling pathway by acting as a ligand for LGR4-6 receptors. Upon binding to LGR4-6 (LGR4, LGR5 or LGR6), LGR4-6 associate with phosphorylated LRP6 and frizzled receptors that are activated by extracellular Wnt receptors, triggering the canonical Wnt signaling pathway to increase expression of target genes (PubMed:21693646). Also regulates the canonical Wnt/beta-catenin-dependent pathway and non-canonical Wnt signaling by acting as an inhibitor of ZNRF3, an important regulator of the Wnt signaling pathway. Acts as a ligand for frizzled FZD8 and LRP6. May negatively regulate the TGF-beta pathway. Has a essential roles in ovary determination (By similarity). Regulates Wnt signaling by antagonizing DKK1/KREM1-mediated internalization of LRP6 through an interaction with KREM1 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226539