

Product datasheet for MR217176

Rspo4 (NM_001040689) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rspo4 (NM_001040689) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rspo4
Synonyms:	A730099F22; A930029K19Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR217176 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGGGCTCCACTCTGCCTGCTGCTCCTCGCCACGCAGTGGACATGCTCGCCCTGTACCGAAGGA
AGAAGCAAGCAGGCACTGGTCTGGGGGCAACTGCACGGGCTGTGTCATATGCTCGGAGGAGAATGGCTG
TTCCACCTGCCAGCAGAGGCTCTTCTCTTCATCCGCGTGAAGGCATCCGTCAGTACGGCAAGTGTGTG
CAGACTGTCCCCTTGGCTTCTTTGGGATCCGTGGCCAGGAGGCCAACAGGTGCAAGAAATGTGGGGCCA
CGTGCGAGAGCTGTTTCAGCCAGGACTTCTGTATCCGCTGCAAAAGGCGTTTCACCTATACAAAGGGAA
GTGCTGCCCTCCTGTCCACCGGCACCTTGACCCACCAGAGTACCCGGGAGTGCCAGGAAGAGTGTGAG
CCGAGCCCTTGGGGCAGCTGGAGTCCCTGCATACACAATGGGAAGACCTGTGGCTCAGGCTGGGGCCTAG
AAACCCGGGTCCGGGAGGCTGGCCCGCCAAGCAGGAAGAGACGGCGAGTTGCCGAGTGTATCTGAGTC
CAGGAAGTGTCTATAAAGAGACTCTGCCAGGAGAAAGAAATCCAGGCAGAAAGAACAGGAAGGATCGG
CGCCAGCGTAAGGACAGGAAGTTGGAGCGCAGGCCACACCAGCGTGGCTCACAG

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR217176 protein sequence
Red=Cloning site Green=Tags(s)

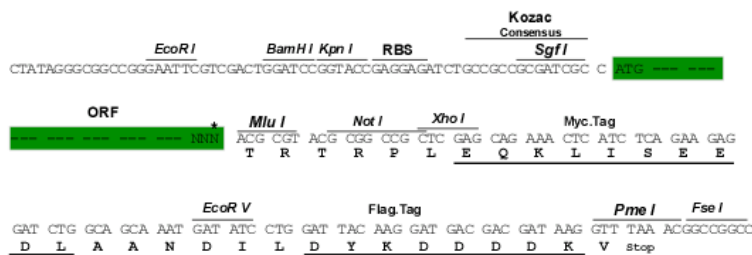
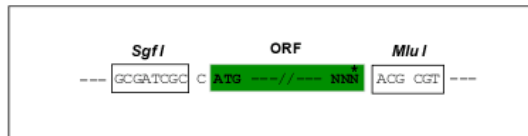
MRAPLCLLLLLAHAVDMLALYRRKKQAGTGLGGNCTGCVICSEENGSTCQQLFLFIRREGIRQYGKCV
HDCPLGFFGIRGQEANRCKKCGATCESCFSDFCIRCKRRFHL YKGKCLPSCPPGTLTHQSTRECQEECE
PSPWGSWSPCIHNGKTCGSGWGLETRVREAGPAKQEETASCRVLSERKCPKRLCPGERNPRQKNRKDR
RQRKDRKLERRPHQSGS

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_001040689

ORF Size: 687 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_001040689.1](#), [NP_001035779.1](#)

RefSeq Size: 2371 bp

RefSeq ORF: 687 bp

Locus ID: 228770

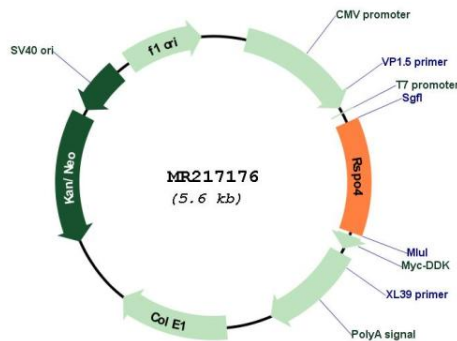
UniProt ID: [Q8BJ73](#)

Cytogenetics: 2 G3

MW: 25.9 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. 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.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR217176