

## Product datasheet for **MG218621**

### Rspo3 (NM\_028351) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rspo3 (NM\_028351) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Rspo3  
**Synonyms:** 2810459H04Rik; AW742308; Cristin1; Thsd2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG218621 representing NM\_028351  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCACTTGCAGCTGATTTCTTGTTTTTTATCATTTTGAACTTTATGGAATACATTGGCAGCCAAAACG  
 CCTCCCGAGGAAGGCGCCAGCGAAGAATGCATCCTAATGTCAGTCAAGGCTGCCAAGGAGGCTGTGCAAC  
 GTGTTCCAGATTACAATGGCTGTTTGTTCATGTAAGCCAGACTGTTTTTGTCTGGAAAGGATTGGCATG  
 AAGCAGATAGGAGTGTGCTCTCTTCGTGTCCAAGTGGATATTACGGAACCTCGATATCCAGATATAATA  
 AATGTACAAAATGCAAAGTTGACTGTGATACCTGTTTCAACAAAATTTCTGCACAAAGTGTAAAAGTGG  
 ATTTTACTTACACCTTGGAAAGTGCCTTGACAGTTGCCAGAAAGGTTAGAAGCCAAACAATCATACTATG  
 GAATGTGTCAGTATTGTACACTGTGAGGCCAGTGAATGGAGTCCATGGAGTCCATGTATGAAGAAAGGAA  
 AAACATGTGGCTTCAAAAGGGGACTGAAACACGGGTCGAGATATACTACAGCATCCTTCAGCCAAAGGG  
 TAACCTGTGCCCCCAACCAGCGAGACAAGAACTTGTATAGTACAAGAAAGAAAGTGTTCAAAGGGAGAG  
 CGAGGAAAAAGGGAAGAGAGAGAAAACGAAAAAACTGAATAAAGAAAGAAAGAAAGAAACAAGCTCCT  
 CCTCTGACAGCAAAGTTGGAGTCCAGCATTGAGACCCAGACCAGCAGGAAAAACAAAGAGGGCAGCA  
 GCAGCAGAAGAGAAGAGCCCGAGACAAGCAACAGAAATCGGTATCAGTCAGCACTGTACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1712\\_a04.zip](https://cdn.origene.com/chromatograms/ja1712_a04.zip)

**Restriction Sites:** SgfI-MluI

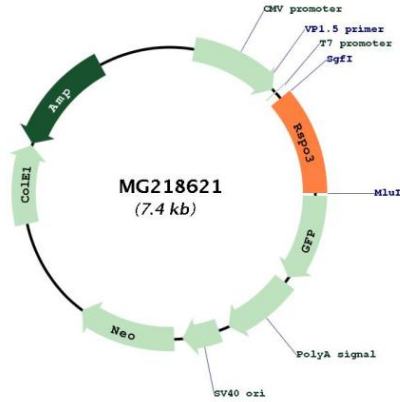


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<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_028351.3</a> , <a href="#">NP_082627.3</a>
<b>RefSeq Size:</b>	2411 bp
<b>RefSeq ORF:</b>	834 bp
<b>Locus ID:</b>	72780
<b>UniProt ID:</b>	<a href="#">Q2TJ95</a>
<b>Cytogenetics:</b>	10 A4
<b>Gene Summary:</b>	<p>Activator of the canonical Wnt signaling pathway by acting as a ligand for LGR4-6 receptors, which acts as a key regulator of angiogenesis (PubMed:16543246, PubMed:21693646, PubMed:26766444). 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. Acts as a ligand for frizzled FZD8 and LRP6. May negatively regulate the TGF-beta pathway (PubMed:16543246, PubMed:21693646). Acts as a key regulator of angiogenesis by controlling vascular stability and pruning: acts by activating the non-canonical Wnt signaling pathway in endothelial cells (PubMed:26766444, PubMed:16543246, PubMed:21693646). Can also amplify Wnt signaling pathway independently of LGR4-6 receptors, possibly by acting as a direct antagonistic ligand to RNF43 and ZNRF3 (By similarity).[UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for MG218621