

## Product datasheet for **MC212832**

### **Rspo4 (NM\_001040689) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rspo4 (NM\_001040689) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Rspo4  
**Synonyms:** A730099F22; A930029K19Rik  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC212832 representing NM\_001040689  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGCGGGCTCCACTCTGCCTGCTGCTCCTCGCCACGCAGTGGACATGCTCGCCCTGTACCGAAGGA  
AGAAGCAAGCAGGCACTGGTCTGGGGGCAACTGCACGGGCTGTGTATGCTCGGAGGAGAATGGCTG  
TTCCACCTGCCAGCAGAGGCTTCTCTTCATCCGCCGTGAAGGCATCCGTGAGTACGGCAAGTGTGTG  
CAGCACTGTCCCCTTGGCTTCTTTGGGATCCGTGGCCAGGAGGCCAACAGGTGCAAGAAATGTGGGGCCA  
CGTGCGAGAGCTGTTTCAGCCAGGACTTCTGTATCCGCTGCAAAAAGGCGGTTTCACCTATACAAAGGGAA  
GTGCTGCCCTCCTGTCCACCGGCACCTTGACCCACCAGAGTACCCGGGAGTGCCAGGAAGAGTGTGAG  
CCGAGCCCTTGGGGCAGCTGGAGTCCCTGCATACACAATGGGAAGACCTGTGGCTCAGGCTGGGGCCTAG  
AAACCCGGGTCCGGGAGGCTGGCCCGCCAAGCAGGAAGAGACGGCGAGTTGCCGAGTGTATCTGAGTC  
CAGGAAGTGTCTATAAAGAGACTCTGCCAGGAGAAAGAAATCCAGGCAGAGAAGACAGGAAGGATCGG  
CGCCAGCGTAAGGACAGGAAGTTGGAGCGCAGGCCACACCAGCGTGGCTCACAG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001040689  
**Insert Size:** 687 bp



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|-------------------------------|--|
| <b>OTI Disclaimer:</b>        | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).   |
| <b>Components:</b>            | 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).   |
| <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>                | <u><a href="#">NM_001040689.1</a></u> , <u><a href="#">NP_001035779.1</a></u>  |
| <b>RefSeq Size:</b>           | 2371 bp  |
| <b>RefSeq ORF:</b>            | 687 bp   |
| <b>Locus ID:</b>              | 228770   |
| <b>UniProt ID:</b>            | <u><a href="#">Q8BJ73</a></u>  |
| <b>Cytogenetics:</b>          | 2 G3   |
| <b>Gene Summary:</b>          | 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] |