

## Product datasheet for **MG217176**

### **Rspo4 (NM\_001040689) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rspo4 (NM\_001040689) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Rspo4  
**Synonyms:** A730099F22; A930029K19Rik  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG217176 representing NM\_001040689  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCGGGCTCCACTCTGCCTGCTGCTCCTCGCCACGCAGTGGACATGCTCGCCCTGTACCGAAGGA  
AGAAGCAAGCAGGCACTGGTCTGGGGGCAACTGCACGGGCTGTGTCATATGCTCGGAGGAGAATGGCTG  
TTCCACCTGCCAGCAGAGGCTCTTCTTCCATCCGCCGTGAAGGCATCCGTCAGTACGGCAAGTGTGTG  
CAGACTGTCCCCTTGGCTTCTTTGGGATCCGTGGCCAGGAGGCCAACAGGTGCAAGAAATGTGGGGCCA  
CGTGCGAGAGCTGTTTCAGCCAGGACTTCTGTATCCGCTGCAAAAAGCGGTTTCACCTATACAAAGGGAA  
GTGCTGCCCTCCTGTCCACCGGCACCTTGACCCACCAGAGTACCCGGGAGTGCCAGGAAGAGTGTGAG  
CCGAGCCCTTGGGGCAGCTGGAGTCCCTGCATACACAATGGGAAGACCTGTGGCTCAGGCTGGGGCCTAG  
AAACCCGGGTCCGGGAGGCTGGCCCGCCAAGCAGGAAGAGACGGCGAGTTGCCGAGTGTATCTGAGTC  
CAGGAAGTGTCTATAAAGAGACTCTGCCAGGAGAAAGAAATCCCAGGCAGAAGAACAGGAAGGATCGG  
CGCCAGCGTAAGGACAGGAAGTTGGAGCGCAGGCCACACCAGCGTGGCTCACAG

**ACGCGTACGCGGGCCGCTCGAG** - GFP Tag - GTTTAA



[View online »](#)

**Protein Sequence:** >MG217176 representing NM\_001040689  
 Red=Cloning site Green=Tags(s)

MRAPLCLLLLLAHAVDMLALYRRKKQAGTGLGGNCTGCVICSEENGSTCQQLFLFIRREGIRQYGKCV  
 HDCPLGFFGIRGQEANRCKKCGATCESCFSDFCIRCKRRFHL YKGKCLPSCPPGTLTHQSTRECQECE  
 PSPWGSWSPCIHNGKTCGSGWGLETRVREAGPAKQEETASCRVLSERKCPKRLCPGERNPRQKNRKRDR  
 RQRKDRKLERRPHQRSQ

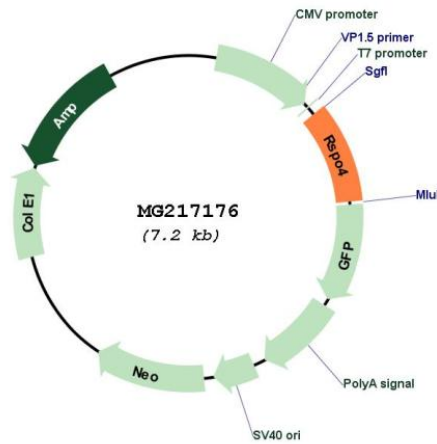
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001040689

**ORF Size:** 684 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001040689.1</a> , <a href="#">NP_001035779.1</a>
<b>RefSeq Size:</b>	2371 bp
<b>RefSeq ORF:</b>	687 bp
<b>Locus ID:</b>	228770
<b>UniProt ID:</b>	<a href="#">Q8BJ73</a>
<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]