

## Product datasheet for **RG217722**

### RSPO4 (NM\_001040007) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RSPO4 (NM\_001040007) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** RSPO4  
**Synonyms:** C20orf182; CRISTIN4  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG217722 representing NM\_001040007  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATCGGGCGCCACTCTGCCTGCTCCTGCTCGTCCGACCCACGCCGTGGACATGCTCGCCCTGAACCGAAGGA  
 AGAAGCAAGTGGCACTGGCCTGGGGGCAACTGCACAGGCTGTATCATCTGCTCAGAGGAGAACGGCTG  
 TTCCACCTGCCAGCAGAGGCTCTTCTGTTTCATCCGCCGGAAGGCATCCGCCAGTACGGCAAGTGCCTG  
 CACGACTGTCCCCTGGTACTTCGGCATCCGCCGCGCCAGGAGTCAACAGGTGCAAAAAATGTGGGGCAA  
 CTTGTGAGAGCTGCTTCAGCCAGGACTTCTGCATCCGGTCAAGAGGCAGTTTACTTGTACAAGGGGAA  
 GTGCTGCCACCTGCCCGCCGGCACTTTGGCCACCAAGAACACACGGGAGTGCCAGGAGAGGAGCCCC  
 GGCCAGAAGAAGGGCAGGAAGGACCGGCCCCACGCAAGGACAGGAAGCTGGACCGCAGGCTGGACGTGA  
 GGCCGCGCCAGCCCGCCTGCAGCCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG217722 representing NM\_001040007  
 Red=Cloning site Green=Tags(s)

MRAPLCLLLLVAHAVDMLALNRRKQVGTGLGGNCTGCIICSEENGSTCQQRFLFIRREGIRQYKCL  
 HDCPPGYFGIRGQEVNRCKKCGATCESCFSDFCIRCKRQFYLYKGKCLPTCPPGLAHQNTRECQERSP  
 GQKGRKDRRPRKDRKLDRLDVRPRQPLQP

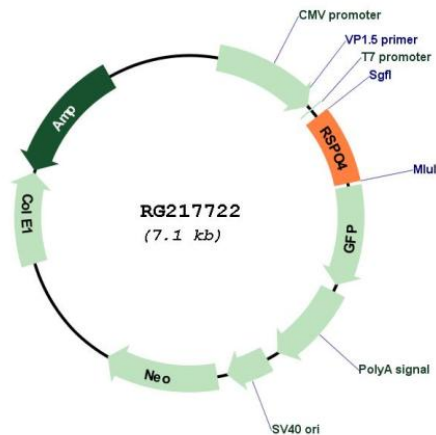
**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001040007

**ORF Size:** 516 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.

<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>NM_001040007.3</u>
<b>RefSeq Size:</b>	2536 bp
<b>RefSeq ORF:</b>	519 bp
<b>Locus ID:</b>	343637
<b>UniProt ID:</b>	<u>Q2I0M5</u>
<b>Cytogenetics:</b>	20p13
<b>Protein Families:</b>	Secreted Protein
<b>Gene Summary:</b>	This gene encodes a member of the R-spondin family of proteins that share a common domain organization consisting of a signal peptide, cysteine-rich/furin-like domain, thrombospondin domain and a C-terminal basic region. The encoded protein may be involved in activation of Wnt/beta-catenin signaling pathways. Mutations in this gene are associated with anonychia congenital. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2009]