

## Product datasheet for **RG224295**

### RSPO4 (NM\_001029871) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RSPO4 (NM\_001029871) 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:** >RG224295 representing NM\_001029871  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCGGGCGCCACTCTGCCTGCTCCTGCTCGTCGCCACGCCGTGGACATGCTCGCCCTGAACCGAAGGA  
 AGAAGCAAGTGGGCACTGGCCTGGGGGCAACTGCACAGGCTGTATCATCTGCTCAGAGGAGAACGGCTG  
 TTCCACCTGCCAGCAGAGGCTCTTCTGTTCATCCGCCGGAAGGCATCCGCCAGTACGGCAAGTGCCTG  
 CACGACTGTCCCCTGGTACTTCGGCATCCGCCGCCAGGAGTCAACAGGTGCAAAAAATGTGGGGCCA  
 CTTGTGAGAGCTGCTTCAGCCAGGACTTCTGCATCCGGTCAAGAGGCAGTTTTACTTGTACAAGGGGAA  
 GTGCTGCCACCTGCCCGCCGGCACTTTGGCCACCCAGAACACACGGGAGTGCCAGGGGGAGTGTGAA  
 CTGGGTCCCTGGGGCGGCTGGAGCCCCTGCACACACAATGGAAAGACCTGCGGCTCGGCTTGGGGCCTGG  
 AGAGCCGGGTACGAGAGGCTGGCCGGGCTGGGCATGAGGAGGCAGCCACCTGCCAGGTGCTTTCTGAGTC  
 AAGGAAATGTCCCATCCAGAGGCCCTGCCAGGAGAGAGGAGCCCGGCCAGAAGAAGGGCAGGAAGGAC  
 CGGCGCCACGCAAGGACAGGAAGCTGGACCGCAGGCTGGACGTGAGGCCGCCAGCCCGGCTGCAGC  
 CC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



[View online »](#)

**Protein Sequence:** >RG224295 representing NM\_001029871  
 Red=Cloning site Green=Tags(s)

MRAPLCLLLLVAHAVDMLALNRRKKQVGTGLGGNCTGCIICSEENGSTCQQLFLFIRREGIRQYKCL  
 HDCPPGYFGIRGQEVNRCKKCGATCESFSQDFCIRCKRQFYLYKGKCLPTCPPGTLAQNTRCQGECE  
 LGPWGGWSPCTHNGKTCGSAWGLESRVREAGRAGHEEAATCQVLSERKCFIQRPCPGERSPGQKKGRKD  
 RRPRKDRKLDRLDVRPRQPLQP

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001029871

**ORF Size:** 702 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\\_001029871.4](#)

**RefSeq Size:** 2722 bp

**RefSeq ORF:** 705 bp

**Locus ID:** 343637

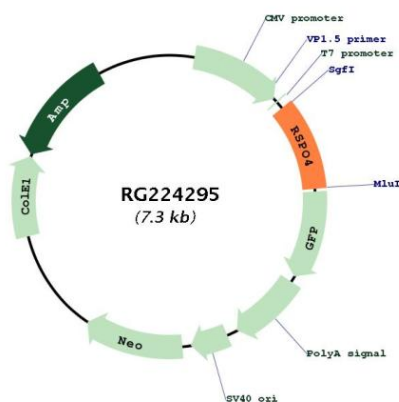
**UniProt ID:** [Q2I0M5](#)

**Cytogenetics:** 20p13

**Protein Families:** Secreted Protein

**Gene Summary:** 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 congenita. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2009]

### Product images:



Circular map for RG224295