

## Product datasheet for **RG205016**

### RSPO3 (NM\_032784) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RSPO3 (NM_032784) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RSPO3
Synonyms:	CRISTIN1; PWTSR; THSD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205016 representing NM_032784 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCACTTGGCACTGATTTCTTGGCTTTTTATCATTTTGAACTTTATGGAATACATCGGCAGCCAAAACG  
CCTCCCGGGAAGGCGCCAGCGAAGAATGCATCCTAACGTTAGTCAAGGCTGCCAAGGAGGCTGTGCAAC  
ATGCTCAGATTACAATGGATGTTTGTGTCATGTAAGCCAGACTATTTTTGCTCTGGAAAGAATTGGCATG  
AAGCAGATTGGAGTATGTCTCTTTCATGTCCAAGTGGATATTATGGAACCTCGATATCCAGATATAAATA  
AGTGTACAAAATGCAAAGCTGACTGTGATACCTGTTTCAACAAAATTTCTGCACAAAATGTAAGTGG  
ATTTTACTTACACCTTGGAAAGTGCCTTGACAATTGCCAGAAAGGTTGGAAGCCAAACCATACTATG  
GAGTGTGTCAGTATTGTGCACTGTGAGGTCAGTGAATGGAATCCTTGGAGTCCATGCACGAAGAAGGGAA  
AAACATGTGGCTTCAAAAGAGGGACTGAAACACGGGTCGAGAAAATAACAGCATCCTTACGAAAGGG  
TAACCTGTGTCCCAACAAATGAGACAAGAAAGTGTACAGTCAAAGGAAGAAGTGTGAGAAGGGAGAA  
CGAGGAAAAAAGGAAGGGAGAGGAAAAAGAAAAAACCTAATAAGGAGAAAGTAAAGAAGCAATACCTG  
ACAGCAAAAGTCTGGAATCCAGCAAAGAAATCCAGAGCAACGAGAAAAACAAACAGCAGCAGAAGAAGCG  
AAAAGTCCAAGATAAACAGAAATCGGTATCAGTCAGCACTGTACAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG205016 representing NM\_032784  
 Red=Cloning site Green=Tags(s)

MHLRLISWLFIIILNFMEYIGSQNASRGRQRMRHPNVSQGCQGGCATCSDYNGCLSCKPRLFFALERIGM  
 KQIGVCLSSCPSGYYGTRYPDINKCTKCKADCDTCFNKNFCTKCKSGFYLHLGKCLDNCPEGLEANNHTM  
 ECVSIVHCEVSEWNPWSPCTKKGKTCGFKRGTE TRVREIIQHPSAKGNLCPPTNETRCKTVQRKKCQKGE  
 RGKKGRERKRKPKNGESKEAIPDSKSLESSKEIPEQRENKQQQKRRKVKQDKQKSVSVSTVH

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_032784

**ORF Size:** 816 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\\_032784.5](#)

**RefSeq Size:** 2165 bp

**RefSeq ORF:** 819 bp

**Locus ID:** 84870

**UniProt ID:** [Q9BXY4](#)

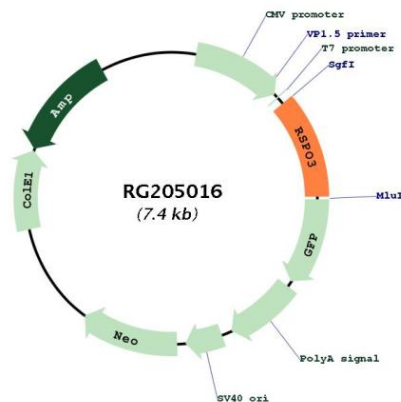
**Cytogenetics:** 6q22.33

**Domains:** tsp\_1, FU

**Protein Families:** Druggable Genome, Secreted Protein

**Gene Summary:** This gene belongs to the R-spondin family. The encoded protein plays a role in the regulation of Wnt (wingless-type MMTV integration site family)/beta-catenin and Wnt/planar cell polarity (PCP) signaling pathways, which are involved in development, cell growth and disease pathogenesis. Genome-wide association studies suggest a correlation of this gene with bone mineral density and risk of fracture. This gene may be involved in tumor development. [provided by RefSeq, Jul 2013]

### Product images:



Circular map for RG205016