

Product datasheet for **RG224177**

RSPO2 (NM_178565) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RSPO2 (NM_178565) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: RSPO2
Synonyms: CRISTIN2; HHRRD; TETAMS2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG224177 representing NM_178565
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGTTTCGCCTTTTCTCCTTTGCCCTCATCATTCTGAACTGCATGGATTACAGCCACTGCCAAGGCA
ACCGATGGAGACGCAGTAAGCGAGCTAGTTATGTATCAAATCCCATTTGCAAGGGTTGTTTGTCTTGTTCC
AAAGGACAATGGGTGTAGCCGATGTCAACAGAAGTTGTTCTTCTCCTTCGAAGAGAAGGGATGCGCCAG
TATGGAGAGTGCCTGCATTCTGCCATCCGGTACTATGGACACCGAGCCCAGATATGAACAGATGTG
CAAGATGCAGAATAGAAAAGTGTGATTCTTGCTTTAGCAAAGACTTTTGTACCAAGTGCAAAGTAGGCTT
TTATTTGCATAGAGGCCGTTGCTTTGATGAATGTCCAGATGGTTTTGCACCATTAGAAGAAACCATGGAA
TGTGTGGAAGGATGTGAAGTTGGTCATTGGAGCGAATGGGGAAGTTGTAGCAGAAAATAATCGCACATGTG
GATTTAAATGGGGTCTGGAAACAGAACACGGCAAATTGTTAAAAAGCCAGTGAAAGACACAATACCGTG
TCCAACCATTTGCTGAATCCAGGAGATGCAAGATGACAAATGAGGCATTGTCCAGGAGGGAAGAGAACCA
AAGCGAAGGAGAAGAGGAACAAGAAAAAGAAAGGAAGCTGATAGAAAGGGCCAGGAGCAACACAGCG
TCTTCTAGCTACAGACAGAGCTAACCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG224177 representing NM_178565
Red=Cloning site Green=Tags(s)

MQFRLFSFALIILN CMDYSHCQGNRWRRSKRASYVSNPICKGCLSCSKDNGCSRCQQLFFFLRREGMRQ
 YGELHSCPSGYGHRAPDMNRCARCRIENCDSFC SKDFCTKCKVGFYLHRGRCFDECPDGFAPLEETME
 CVEGCEVGHWSEWGTCSRNNRTCGFKWGLETRTRQIVKKPVKDTIPCPTIAESRRCKMTRHCPGGKRT
 KAKEKRNNKKRKLIERAQEQHSVFLATDRANQ

TRTRPLE - GFP Tag - V

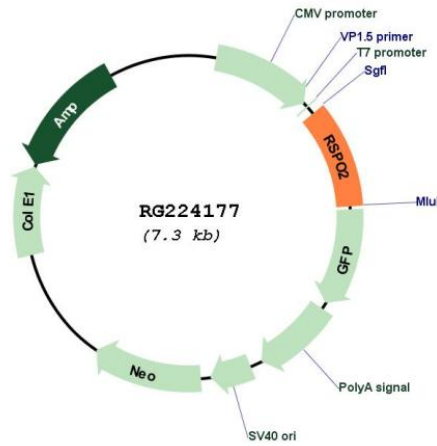
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_178565

ORF Size: 729 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:	<ol style="list-style-type: none">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_178565.3 , NP_848660.2
RefSeq Size:	2842 bp
RefSeq ORF:	732 bp
Locus ID:	340419
UniProt ID:	Q6UXX9
Cytogenetics:	8q23.1
Protein Families:	Secreted Protein
Gene Summary:	This gene encodes a member of the R-spondin family of proteins. These proteins are secreted ligands of leucine-rich repeat containing G protein-coupled receptors that enhance Wnt signaling through the inhibition of ubiquitin E3 ligases. A chromosomal translocation including this locus that results in the formation of a gene fusion has been identified in multiple human cancers. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]