

Product datasheet for RC224295

RSPO4 (NM_001029871) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RSPO4 (NM_001029871) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: RSPO4
Synonyms: C20orf182; CRISTIN4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC224295 representing NM_001029871
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGCGGGCGCCACTCTGCCTGCTCCTGCTCGTCGCCACGCCGTGGACATGCTCGCCCTGAACCGAAGGA
 AGAAGCAAGTGGGCACTGGCCTGGGGGCAACTGCACAGGCTGTATCATCTGCTCAGAGGAGAACGGCTG
 TTCCACCTGCCAGCAGAGGCTCTTCTGTTCATCCGCCGGAAGGCATCCGCCAGTACGGCAAGTGCCTG
 CACGACTGTCCCCTGGTACTTCGGCATCCGCCGCCAGGAGTCAACAGGTGCAAAAAATGTGGGGCCA
 CTTGTGAGAGCTGCTTCAGCCAGGACTTCTGCATCCGGTCAAGAGGCAGTTTTACTTGTACAAGGGGAA
 GTGCTGCCACCTGCCCGCCGGCACTTTGGCCACCAGAACACACGGGAGTGCCAGGGGGAGTGTGAA
 CTGGGTCCCTGGGGCGGCTGGAGCCCCTGCACACAATGGAAAGACCTGCGGCTCGGCTTGGGGCCTGG
 AGAGCCGGGTACGAGAGGCTGGCCGGGCTGGGCATGAGGAGGCAGCCACCTGCCAGGTGCTTTCTGAGTC
 AAGGAAATGTCCCATCCAGAGGCCCTGCCAGGAGAGAGGAGCCCGGCCAGAAGAAGGGCAGGAAGGAC
 CGGCGCCACGCAAGGACAGGAAGCTGGACCGCAGGCTGGACGTGAGGCCGCCAGCCCGGCTGCAGC
 CC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC224295 representing NM_001029871
 Red=Cloning site Green=Tags(s)

MRAPLCLLLLVAHAVDMLALNRRKKQVGTGLGGNCTGCIICSEENGSTCQQLFLFIRREGIRQYKCL
 HDCPPGYFGIRGQEVNRRCKKCGATCESCFSDFCIRCKRQFYLYK GKCLPTCPPGTLA HQNTRECQGECE
 LGPWGGWSPCTHNGKTCGSAWGLESRVREAGRAGHEEAATCQVLSERKCP IQRPCPGERSPGQKKGRKD
 RRPRKDRKLD RRLDVRPRQPLQP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3289_f05.zip

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](#)

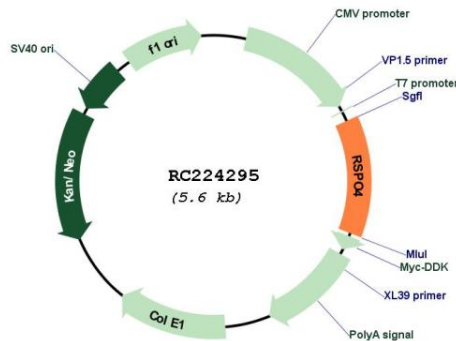
Cytogenetics: 20p13

Protein Families: Secreted Protein

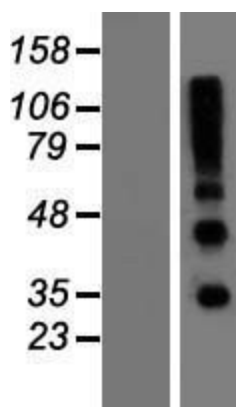
MW: 26.17 kDa

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 congenital. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2009]

Product images:



Circular map for RC224295



Western blot validation of overexpression lysate (Cat# [LY422255]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224295 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).