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Product datasheet for RC217722

RSPO4 (NM_001040007) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RSPO4 (NM_001040007) 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:

>RC217722 representing NM_001040007
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGGGCGCCACTCTGCCTGCTCCTGCTCGTCGCCCACGCCGTGGACATGCTCGCCCTGAACCGAAGGA
AGAAGCAAGTGGGCACTGGCCTGGGGGGCAACTGCACAGGCTGTATCATCTGCTCAGAGGAGAACGGCTG
TTCCACCTGCCAGCAGAGGCTCTTCCTGTTCATCCGCCGGGAAGGCATCCGCCAGTACGGCAAGTGCCTG
CACGACTGTCCCCCTGGGTACTTCGGCATCCGCGGCCAGGAGGTCAACAGGTGCAAAAAATGTGGGGCCA
CTTGTGAGAGCTGCTTCAGCCAGGACTTCTGCATCCGGTGCAAGAGGCAGTTTTACTTGTACAAGGGGAA
GTGTCTGCCCACCTGCCCGCCGGGCACTTTGGCCCACCAGAACACACGGGAGTGCCAGGAGAGGAGCCCC
GGCCAGAAGAAGGGCAGGAAGGACCGGCGCCCACGCAAGGACAGGAAGCTGGACCGCAGGCTGGACGTGA
GGCCGCGCCAGCCCGGCCTGCAGCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC217722 representing NM_001040007
Red=Cloning site Green=Tags(s)

MRAPLCLLLLVAHAVDMLALNRRKKQVGTGLGGNCTGCIICSEENGCSTCQQRLFLFIRREGIRQYGKCL
HDCPPGYFGIRGQEVNRCKKCGATCESCFSQDFCIRCKRQFYLYKGKCLPTCPPGTLAHQNTRECQERSP
GQKKGRKDRRPRKDRKLDRRLDVRPRQPGLQP

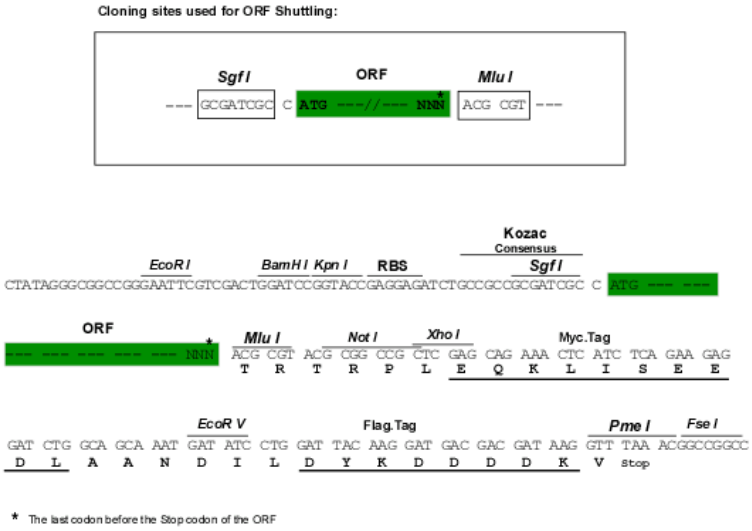
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8074_c05.zip

View online »

Restriction Sites: SgfI-MluI

Cloning Scheme:



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.

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_001040007.3

RefSeq Size: 2536 bp

RefSeq ORF: 519 bp

Locus ID: 343637

UniProt ID: Q2I0M5

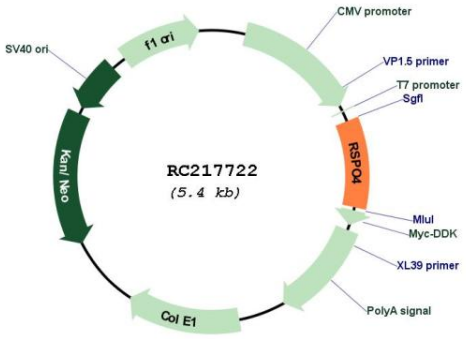
Cytogenetics: 20p13

Protein Families: Secreted Protein

MW: 19.61 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 RC217722