

Product datasheet for **RC209745**

C1orf124 (SPRTN) (NM_032018) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C1orf124 (SPRTN) (NM_032018) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C1orf124
Synonyms:	C1orf124; DVC1; PRO4323; spartan
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC209745 representing NM_032018
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGATGATGACTTGATGTTGGCACTGCGGCTTCAGGAGGAGTGGAACTGCAGGAGCGGAGCGCGATC
 ATGCCCAGGAGTCCCTGTCGCTAGTGGACGCGTGTGGGAGTTGGTGGACCCACACCGGACTTGCAGGC
 ACTGTTTGTTCAGTTAACGACCAATTCTTCTGGGGCCAGCTGGAGGCCGTCGAGGTGAAGTGGAGCGTG
 CGAATGACCCTGTGTGCTGGGATATGCAGCTATGAAGGGAAGGGTGAATGTGTTCCATCCGCTCTCAGCG
 AACCCCTTTTGAAGTTGAGGCCAAGAAAGGATCTTGTAGAGACCCTCCTGCATGAAATGATACATGCCTA
 TTTATTTGTCCTAATAACGACAAAGACCAGAGAAGGGCATGGTCCAGAATTTTGTAAACATATGCATCGC
 ATCAACAGCCTGACTGGAGCCAATATAACGGTATACCATACTTTTACAGTATGAGGTGGATGAGTATCGGC
 GACTGGTGGCGCTCAATGGCCGTCGACGACAGGCCACCGTATTACGGCTATGTCAAACGAGCTAC
 TAACAGGGAACCCCTGCTCATGACTATTGGTGGGCTGAGCACCAGAAAACCTGTGGAGGCACCTACATA
 AAAATCAAGGAACCAGAGAATTACTCAAAAAAGGCAAAGGAAAGGCAAACTAGGAAAGGAACCGAT
 TGGCCGCAGAGAATAAAGATAAACCCACAGAGGTGAGGCCAGCTAGTAAATCCCTTTTGTGGAAAGG
 ATATGTTCTAGGAAACAAGCAATTTACCTTACCTGGGAAACTGATCACTTACATGCCATTAATAAAA
 ACCCAAGATCTTTAAATCAAAACCATTCAGCAATGCTGTAAGACTTAATTCTAAAAATCAAGGTGAAAT
 TTGAACAGAATGGTTCAAGTAAAAATCTCATCTGGTCTCCCCTGCTGTTAGTAAACAGTACCAAAAATGT
 TCTAAGCAACTACTTTCTAGAGTATCATTGCCAACAAAAGGCTTTTCCAGAGGTGTGAATGGATCTCCA
 AGGATAAGTGTAAACAGTTGGCAACATCCCTAAAAACTCAGTCTCTTCTAGTCTCAGAGAAGGGTTTCAT
 CTTCTAAGATATCCCTAAGAAATCTTCAAAGTAAACGGAATCAGCATCTGTGATGCCATCCAGGATGT
 GAGTGGGTCTGAAGATACATTTCCAAATAAACGACCTAGGCTAGAAGATAAGACTGTTTTTGACAATTTT
 TTTATCAAGAAAGAGCAATAAAAAAGCAGTGGTAAATGATCCAAAGTATAGTACAACCACAGCTCAGAATT
 CCAGCAGTTATCCAGTCAAGCAAAATGGTTAATGCCCCAGTTTGTGAGAATGAAGTTCTGGAGTCTCA
 GATTAATGAGCACTTGGACTGGTGCCTGAAGGTGACAGCATCAAAGTCAAAGCGAAGAAAGTCTT

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209745 representing NM_032018
 Red=Cloning site Green=Tags(s)

MDDLMLALRLQEEWNLQEAERDHAQESLSLVDASWELVDPTDQLALFVQFNDQFFWQLEAVEVKWSV
 RMTLCAGICSYEGKGMCSIRLSEPLLKLRPRKDLVETLLHEMIHAYLFVTNNDKDREGHGPEFKHMHR
 INSLTGANITVYHTFHDEVDEYRRHWRCNGPCQHRPPYYGYVKRATNREPSAHDYWWAEHQKTCGGTYI
 KIKEPENYSKKGKAKLKGEPVLAENKDKPNRGEAQLVIPFSGKGYVLGETSNLPSPGKLITSHAINK
 TQDLLNQNSANAVRLNSKIKVQFEQNGSSKNSHLVSPAVSNHQNVLSNYFPRVFSANQKAFRGNVNSP
 RISVTVGNIPKNSVSSSSQRRVSSSKISLRNSSKVTESASVMPSQDVSGSEDTFPNKRPRLEDKTVFDNF
 FIKKEQIKSSGNDPKYSTTTAQNSSSSSSQSKMVNCPVCQNEVLESQINEHLDWCLEGDSIKVKSEESL

SGP**TRRRLEQKLI**SEEDLAANDILDYKDDDDK**V**

Chromatograms:

https://cdn.origene.com/chromatograms/mg4014_e01.zip

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_032018

ORF Size: 1467 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_032018.3](#)

RefSeq Size: 2816 bp

RefSeq ORF: 1470 bp

Locus ID: 83932

UniProt ID: [Q9H040](#)

Cytogenetics: 1q42.2

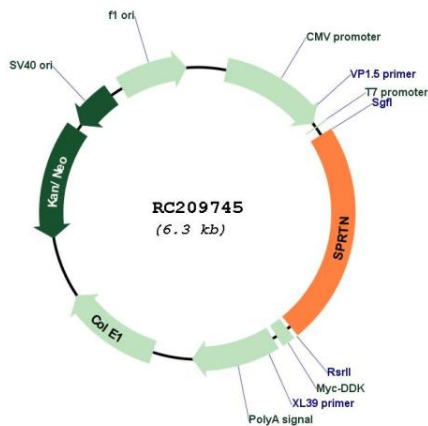
Domains: SprT, ZnF_Rad18

Protein Families: Druggable Genome

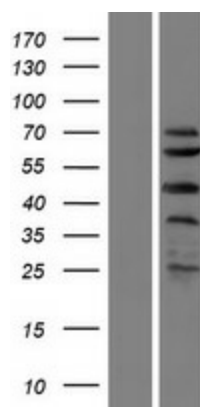
MW: 55 kDa

Gene Summary: The protein encoded by this gene may play a role in DNA repair during replication of damaged DNA. This protein recruits valosin containing protein (p97) to stalled DNA replication forks where it may prevent excessive translesional DNA synthesis and limit the number of DNA-damage induced mutations. It may also be involved in replication-related G2/M-checkpoint regulation. Deficiency of a similar protein in mouse causes chromosomal instability and progeroid phenotypes. Mutations in this gene have been associated with Ruijs-Aalfs syndrome (RJALS). Alternatively spliced transcript variants have been identified. [provided by RefSeq, Mar 2015]

Product images:



Circular map for RC209745



Western blot validation of overexpression lysate (Cat# [LY410392]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209745 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).