

Product datasheet for **RC211918**

KIAA0146 (SPIDR) (NM_001080394) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIAA0146 (SPIDR) (NM_001080394) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KIAA0146
Synonyms:	KIAA0146
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC211918 representing NM_001080394
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCCGCGGCAGCCGCTCGGGCTCTAAGAGAAAAAGGAGTTGGAATACAGAAATGCCATCCTTTTC
 CAGGAGAAAAGACCACTGCAGGTCAGAAGAGCAGGTCTCAGGACAGCAGGGGCAGCTGCCTCTCTCTGA
 AGCATGGCTCAGGTGTGAGAAGGGTTTCAGAACACTTCTGGAAATCCGTCATTAACAGCTGAAGAGAAG
 ACGATTACAGAAAAGCACCTTGAATTATGCCCTAGACCCAAGCAAGAAACCACCACATCTAAAAGCACCA
 GTGGGCTTACAGACATAACATGGAGCTCCAGTGGAAAGTATTTGTCGGATGAAGATAAGACACTTTCTCA
 GTTACAGAGAGATGAATTACAGTTTATCGACTGGGAGATTGACAGTGACAGGGCAGAGGCTAGTGACTGT
 GATGAATTTGAAGATGACGAGGGTGTGTGAAATCTCAGACTGTCTTCTGTGCAAGTAAATCAGTCTT
 TGACAAGTGATGAGAAGCTGTCCGAGCTTCCCAAGCCAAGTTCTATAGAAATTTAGAGTATTCATCAGA
 TAGTGAAAAAGAAGATGATTTGGAAAATGCTACTCATTGATTGAGAAATCCCCTCACAAATACCACGTG
 CAGTTTGCATCGGATGCAAGACAGATTATGGAGAGACTGATAGATCCAAGGACAAAATCAACAGAGACCA
 TTTTGCATACACCTCAGAAACCCACAGCTAAGTTTCCCAGGACTCCAGAAAATTCAGCAAAAGAAGAGCT
 TTTAAGAGGTGGACTAGCAGAAAGACTAAATGGACTGCAGAATCGAGAGAGATCTGCTATTTCTTTGTGG
 AGACATCAATGTATTTCTTACCAAAAAGACACTTTCAGGTAGAAAACTGGTGTATTAAGTGTGAAAAATTT
 TAGAGCTGCATGAGGAATGTGCCATGCAAGTTGCCATGTGTGAGCAGTTATTGGGGTCCACAGCCACCAG
 CTCCTCCCAAAGTGTGGCTCCAGGCTGGAGCTGGCTGAAAGTTCTTCCCAAGGAGACTGCAGGC
 TACCTCAGGGGCCGTCCCAGGACACTGCCGATCTTCCCTCCCTGGCAAAAAGTATTATTTCAAGTG
 GAAGTTGCCCTGTTATTCTGAATACTTACTTTTGTGAGAAAAGTTGTTGCCAAAGAAGATTACAGAAAAAC
 TTGTGAAGTGTACTGTCCGGACATACCCCTTCCAAGAAGAAGCATCTCTTTGGCCAGATGTTTGTAAAT
 AAGGGTCTAACAAATAATTCACCTGAAATCCAGGTTGTGTAGTGGTGTAGCCACTACAGGGACAGCCT
 GGACCATGGGCACAAAGAAGCAAAACAGCGCATCCCAACCAGCACTCCCTGAGGGATTCTCTCTGGA
 TGTGGTGGAAAGCCAGGGAGCTGCCTCGTGGCCAGGAGCTGGAGTCCGAGTGGTGGTCAAAAGAGTGTAT
 TCTCTCCAGCAGAGACAGCACCAGGGGTGAGCAGGGGGCCAGCTCAGGACACACAGACCAGCTGGAA
 CTCGAGCCTGCCTTCTGGTACAAGATGCCTGTGGAATGTTCCGGTGAAGTGCCTGGAGTTCACCATGTC
 GAAGGCAAGACAGTTGGAAGGGAAGTCTTGACGCTGGTGGGAATGAAGTTCTACAGAAAGTACCAGAG
 GGAAGGACAGCGGGATTTTCAGTTTATTGACACCCTGTGGCCCCAGCGATACCTCTGAAAACACCTG
 GCCGCGACAGCCCTGTGAAGAGATAAAAACTCATCTGCCTCCTCCAGCCTTGTGTACATCCTCACAGC
 TCATCAAATCTGGGACAAATTGATATAATTGACGAAGACCCCATTTATAAGCTTTACCAGCCTCCAGTT
 ACCCGCTGCTTAAGAGACATTCTCCAGATGAATGATCTTGGTACCCGTTGCAGTTTCTATGCCACGGTGA
 TTTACCAAAAACACAGCTGAAGAGTCTGCTGCTTCTGGAGCAAAAGGAGATCTGGCTGCTAGTGACCGA
 TGTCACTCTGCAACGAAGGAGGAGAGACCCAGGCTCCCAAAAACCTGCTGGTCTATGTGGCCCCC
 TTGTGTGTGCTGGGCTCTGAAGTCTGGAGGCACTCGTGGGGCTGCCCTCACAGCCTCTTCTCAAGG
 ACGCTCTCCGTGACCAGGGTCCGATTGTTGTGCTGAACGAACTGTCTTCTTCTCAGAAGCCCCCTTTT
 GAGTGTGGTCTCTGGTGAAGTTCTGTGAGCTGCCTGGCCGGTGTGCTCGACAGCCTGGACTGCA
 ACACCTGTCAACTCCATCTGCAGTGTCAAGGCACTGTGGTTGGCGTGGACGAGAGCACTGCTTCTCAT
 GGCTGTGTGTGACATGTGTGGCAACGGGAGATTGGAACAGAGGCCGGAAGACAGAGGCGCCTTTTCTG
 TGGGACTGCTCCCGGTGGTACATCTCTGTTCTCAAGAGGCACCTGCAGGTCTTCTGGACTGCCGC
 TCAAGACCGCAGTGCAGAGTGAAGGTCAAGCTGTTGCAGCGCAGCATTTCTCCCTGCTGAGGTTTGCCG
 CCGGTGAAGATGGGAGCTACGAAGTGAAGAGTGTCTCGAAAGGAAGTGGGGTTGTTAAATGTTTTGT
 CCAGTCCGTAACCGCCACCCGACCAGTGCATTGGATTGGAGGAAATCGAGCTTCTGAGTGCAGGAGGG
 GCCTCTGCAGAACAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAAGTTTAA

Protein Sequence: >RC211918 representing NM_001080394
Red=Cloning site Green=Tags(s)

MPRGSRARGSKRRKRSWNTECPSPFGERPLQVRRAGLRTAGAAASLSEAWLRCGEGFQNTSGNPSLTAE EK
TITEKHLELCPRPKQETTTSKSTSGLTDITWSSSGSDLDEDKTLSQLQRDELQFIDWEIDSDRAEASDC
DEFEDDEGAVEISDCASCASNQSLTSDEKLSLSELPKPSSIEILEYSSDSEKEDDLENVLLIDSESPHKYHV
QFASDARQIMERLIDPRKSTETILHTPQKPTAKFPRTPENSAKKKLLRGGLAERLNGLQNRERSAISLW
RHQCISYQKTLSGRKSGLTVKILELHEECAMQVAMCEQLLGSPATSSSQSVAPRPGAGLKVLFKTAG
YLRGRPQDTRIFPPWQKLIIPSGSCPVLNNTYFCEKVVAKEDSEKTCEVYCPDIPLRRSISLAQMFVI
KGLTNSPEIQVVCVAVTTGTAWTHGHKEAKQRIPTSTPLRDSLLDVVESQGAASWPGAGVRRVVQRVY
SLPSRDSTRGQQGASSGHTDPAGTRACLLVQDACGMFGEVHLEFTMSKARQLEGKSCSLVGMKVLQKVTR
GRTAGIFSLIDLWPPAIPLKTPGRDQPCIEIKTHLPPPALCYILTAHPNLGQIDIIDEDPIYKLYQPPV
TRCLRDLIQMNDLGTCSFYATVIYQKQLKSLLEQREIWLIVTDVTLQTKERDPRLPKTLVYVAP
LCVLGSEVLEALAGAAPHSLFFKDALRDQGRIVCAERTVLLQLKPLL SVVSGASSCELPGPVM LDSLDSA
TPVNSICSVQGT VVGDESTAFSWPVCDMCGNRLERQRPEDRGAFSCGDCSRVTSPVLKRHLQVFLDCR
SRPQCRVKVKLLQRSISLLRFAAGEDGSYEVKSVLGKEVGLLNCVQSVTAHPTSCIGLEEIELLSAGG
ASAEH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8026_f02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



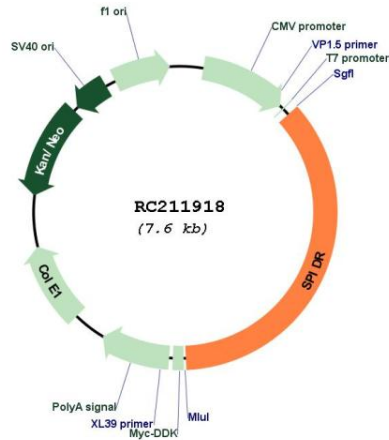
* The last codon before the Stop codon of the ORF

ACCN: NM_001080394

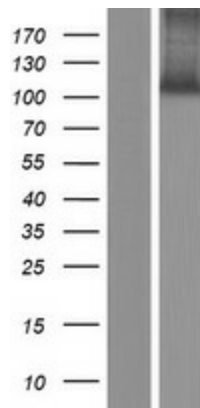
ORF Size: 2745 bp

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001080394.4
RefSeq Size:	3220 bp
RefSeq ORF:	2748 bp
Locus ID:	23514
UniProt ID:	Q14159
Cytogenetics:	8q11.21
MW:	100.1 kDa
Gene Summary:	Plays a role in DNA double-strand break (DBS) repair via homologous recombination (HR). Serves as a scaffolding protein that helps to promote the recruitment of DNA-processing enzymes like the helicase BLM and recombinase RAD51 to site of DNA damage, and hence contributes to maintain genomic integrity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC211918



Western blot validation of overexpression lysate (Cat# [LY421612]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211918 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).