

## Product datasheet for **RC216846**

### **NCKIPSD (NM\_016453) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NCKIPSD (NM_016453) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NCKIPSD
Synonyms:	AF3P21; DIP; DIP1; ORF1; SPIN90; VIP54; WASLBP; WISH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC216846 representing NM\_016453  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTACCGCGCTGTACGCGTTCGGCTCGGCGGAGCCAAACGCGCTGGCGTTCGCCGGGGCAGACCT  
 TCCTGGTGCTAGAGCGAAGCAGCGCCTGGTGGCTGGCCGCGGGCCGCGCAGTGGTGAACGGGCTA  
 CGTGCCGCCAGCCTACCTGCGCCGCTGCAAGGCTGGAGCAGGATGTCCTCCAGGCCATTGACCGGGCC  
 ATCAGAGCTGTACACAACACAGCCATGCGGGATGGTGGCAAGTACAGCCTGGAACAGCGTGGAGTCTCC  
 AGAAGCTGATCCACCACCGAAAGAGACCCTGTACGCAGAGGCCCTTCAGCCTCCAGTGTGACGTTAT  
 GACCTCATCAACAGTGACCACCACTTGGATGCTGCTGCAGCCAGGCAGCCCAATGGGGTGTGTCGAGCT  
 GGGTTCGAGCGGCAGCACAGCCTACCCAGTTCGAGCATCTTGGGGCAGATGGAGGCCTCTACCAGATCC  
 CACTTCCATCTTCCAGATCCCACCACAGCCTCGCCGAGCAGCACCCACCACACCGCCCCACCAGTGAA  
 GCGCCGAGACCGGAGGCCCTGATGGCCTCTGGGAGTGGTGGCCACAACACCATGCCCTCCGGGGTAA  
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 AACAGGCTCCAGCTGCTCACCCACACCCCCACCTGTGCCCGCCGAGGCACCCACACCACCGTGTCCCA  
 AGTCCAGCCCCCTCCCTCCAAGGCATCAGCACCTGAACCCCTGCAGAAGAAGAAGTGGCAACTGGTACA  
 ACCTCAGCCTCTGATGACCTGGAAGCCCTGGGTACACTGAGCCTGGGGACCACAGAGGAGAAGGCAGCAG  
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 CCACGAATTATGCCGGTGGCCATCGGCATCATAGTGGTACATCCAGGCCCTGGTGCAGGAGCAGTCA  
 CCAGTCTGGAGCAGTCCCTCCTCTACTCGTAGAGGGCAAGGACCTCAGCATGGCCCTGCCCTCAGGCC  
 AGGTCTGCCACGACAGCAGAGGCTGGAGTGTCTTTGCAGACCTGGCTGCCCGGAAGGACGACGCCCA  
 GCAGCGCAGTTGGGCACTATATGAGGATGAGGGTGTCTCCGCTGCTACCTAGAGGAGCTGCTGCATATT  
 CTGACTGATGCAGACCCTGAAGTTTGAAGAAAATGTGCAAGAGAAACGAGTTCGAGTCTGCTTGGCCT  
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 ATGCAGACAGACAGCAGGACCACCAGAACTCTGTTACTCTGCCCTCATCTGGCCATGGTCTTCTCCA  
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 CGTCGAGGATGGGCTGCCCTTGGACACCACAGAGCAGCTGCCGACCTCTGCGTGAACCTGCTTCTGGCT  
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 GCCACAGCCACACACTCTGTCTCAAGTTCCTGCAGGACGTGTTTGGCAGCCGGCCACAGCTGCCATC  
 TTCTACCACACAGACATGATGGCTCTCATTGACATCACTGTGCGGCACATCGCAGACCTGTACCAGGAG  
 ACAAGCTGCGCATGGAGTACCTCTCCCTGATGCATGCTATAGTCCGCACCACACCTACCTGCAGACCG  
 CCACCGGCTACCCGACCTGCAGGCCATACTGCGACGCATCCTGAATGAGGAGGAGACCTCACCCAGTGC  
 CAGATGGACCGCATGATTGTCCGAGAGATGTGCAAGGAATTCCTGGTGTGGGGAGGCTCCCAGC

AG**GCGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

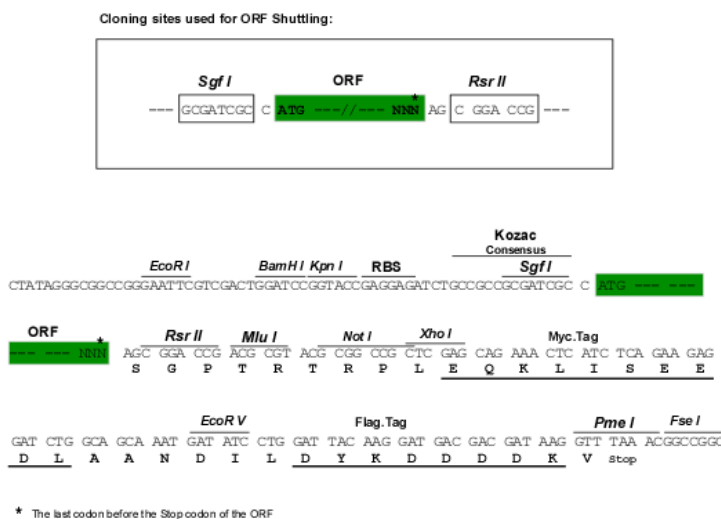
**Protein Sequence:** >RC216846 representing NM\_016453  
Red=Cloning site Green=Tags(s)

MYRALYAFRSAEPNALAFAAGETFLVLERSSAHWWLAARARSGETGYVPPAYLRRLQGLEQDVLQAIDRA  
 IEAVHNTAMRDGGKYSLEQRGVLQKLIHHRKETLSRRGPSASSVAVMTSSTSDHHLDAAAAARQPNGVCRA  
 GFERQHSLPSSSEHLGADGGLYQIPLPSSQIPPQPRRAAPTTPPPVVKRRDREALMASGSGGHNTMPSSGN  
 SVSSGSSVSSTSLDTLYTSSSPSEPGSSCSPTPPPVPRRGTHTTVSQVQPPPSKASAPEPPAEVEEVATGT  
 TSASDDLEALGTLSLGTTEKAAAEAAVPRTIGAELMELVRRNTGLSHELCRVAIGIIVGHIQASVPASS  
 PVMEQVLLSLVEGKDLSMALPSGQVCHDQQRLEVIFADLARRKDDAQQRSWALYEDEGVIRCYLEELLHI  
 LTDADPEVCCKMKRNEFESVLALVAYYQMEHRASLRLLLKCFGAMCSLDAAIISTLVSSVLPVELARD  
 MQTDTQDQKLCYSALILAMVFSMGEAVPYAHYEHLGTPFAQFLLNIVEDGLPLDTTEQLPDLVNLALLA  
 LNLHLPAAQNVIMAALSKHANVKIFSEKLLLLNRGDDPVRIKHEPQPPHSVLKFLQDVFVGFSPATAAI  
 FYHTDMMALIDITVRHIADLSPGDCLRMEYLSLMHAIVRTTPYLQHRHRLPDLQAILRRILNEEETSPQC  
 QMDRMIVREMCKEFLVLGEAPS

SGPTRRRLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**



**ACCN:** NM\_016453

**ORF Size:** 2166 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_016453.4](#)

**RefSeq Size:** 3023 bp

**RefSeq ORF:** 2169 bp

**Locus ID:** 51517

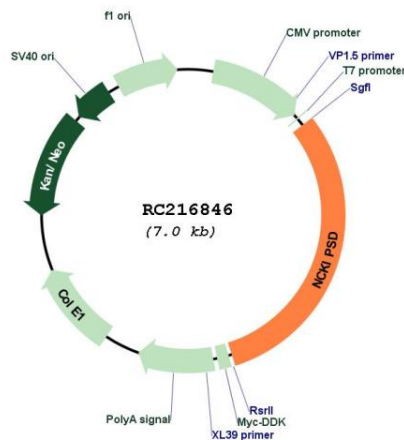
**UniProt ID:** [Q9NZQ3](#)

**Cytogenetics:** 3p21.31

**MW:** 78.8 kDa

**Gene Summary:** The protein encoded by this gene contains a nuclear localization signal. It plays a role in signal transduction, and may function in the maintenance of sarcomeres and in the assembly of myofibrils into sarcomeres. It also plays an important role in stress fiber formation This protein is involved in the formation and maintenance of dendritic spines, and modulates synaptic activity in neurons. The gene is involved in therapy-related leukemia by a chromosomal translocation t(3;11)(p21;q23) that involves this gene and the myeloid/lymphoid leukemia gene. Alternative splicing results in multiple transcript variants of this gene. [provided by RefSeq, Aug 2019]

### Product images:



Circular map for RC216846