

Product datasheet for **RC210832**

NCKAP1L (NM_005337) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NCKAP1L (NM_005337) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: NCKAP1L
Synonyms: HEM1; IMD72
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC210832 representing NM_005337
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCTTTGACATCTGCTTACCAGCATAAATTAGCAGAGAAGCTCACTATCCTGAATGATCGCGGTGAG
GGTTCTCATCCGTATGTATAACATCAAGAAGACTTGTTCCAGACCCCAAATCTAAGCCACCTTTCTTACT
GGAAAAGTCCATGGAACCATCTCTCAAGTATATCAACAAGAAATTTCCAACATAGATGTCCGAAACAGC
ACGCAACATTTAGGACCACTACATCGTGAAAAAGCCGAGATAATTAGATTCCTCACCAACTACTACCACT
CATTTGTGGATGTCATGGAATTCGGGATCATGTATGAACCTCTCAACACCATTGATGCCTGCCAGTG
CCATTTTGATATCAATCTCAACTTTGATTTCACTCGGAGTTACCTGGACTTGATTGTAACCTTACACCTCA
GTCATTTTACTTCTGTCACGGATTGAAGATCGGCGGATACTCATTGGCATGTACAATTGTGCCCATGAGA
TGCTGCATGGGCATGGTGACCCAGTTTTGCCCGTCTGGGTCAGATGGTCTTGAGTATGACCACCTCT
GAAGAAGCTGACAGAAGAGTTTGGGCCTCACACAAAGGCTGTGAGTGGAGCCCTCCTCTCTTTGCATTTCT
CTTTTGTCCGAAGAAACCAGGGGGCTGAGCAGTGGCGCAGTGCCCAACTTCTAAGCCATCAGCAACC
CCCCAGCCATGATTAACCCTGCTAATTCAGATAACAATGGCCTGTGAGTATCTGTCTGTGGAAGTAATGGA
GCCTGGATTATCATTGGGTTTCTTTGTCATGGGTGCCTCAACTCCAATAGCCAGTGCCAGAAGCTG
TGGAAGCTGTGTCTGCAGGGCTCCCTCTACATCACCCCTATCCGTGAGGATGTGCTGCAGGTGCACAAAG
TCACCGAGGACCTGTTTAGCAGTTTAAAAGGGTATGGCAAGAGAGTGGCAGACATAAAGGAGAGCAAGGA
ACATGTAATTGCAACAGTGGCCAGTTTTCATTGTCAACGCGGCAATTTCTGCGGATGGCAGTGAAGGAG
CTGGAGACTGTGTTGGCTGATGAACCGGGACTACTGGGTCCTAAGGCTCTTTTGTCTTTCATGGCCCTGT
CCTTCATTCGTGATGAGGTCACCTGGCTGGTTCGCCACACAGAGAATGTCACCAAGACAAAGACACCTGA
GGACTATGCTGACTCGAGCATTGCAGAGCTACTTTTCTGTTGGAGGGGATTAGGTCTCTGGTCCGAAGA
CACATCAAAGTGATACAGCAATACCACCTTCAGTACTTGCAAGATTTGATGCTCTGTGCTCAGTGACA
TCATTCAGAACTGTCTGTGTGTCCAGAGGAGGAGTCCATCATATGTCCTCATTGCTCAGTATCCTCTC
CTCTCTGAATCTCAAACAGTTGATAATGGAGAAAAATTTGAATTCAGGATTGAGGCTGGACTGGTTC
CGCTACAGGCATACACTAGCGTGGCTAAGGCCCTCTGCACCTGCATGAGAACCCTGACTTAGCCAAGG



[View online »](#)

TGATGAACCTCATTGTCTTCCACTCCCGAATGCTGGACTCCGTAGAAAAATTGCTGGTGGAACTTCTGA
TCTGTCTACTTTCTGCTTTCATCTTCGTATCTTTGAGAAGATGTTTGCCATGACCTTGGAGGAATCTGCC
ATGTTGCGTTATGCCATTGCTTTCCTCCCTGATTTGTGCTCACTTTGTCCACTGCACTCATGAGATGTGCC
CAGAGGAGTACCCCCACCTCAAGAACCATGGTCTTCCACTGCAACTCCTTCTGGAAGAGTTGGCCAA
GCAGACCAGCAATTGCGTCCTGGAGATCTGTGCTGAGCAGCGAAACCTGAGCGAGCAGCTTCTACCTAAG
CACTGTGCCACTACAATCAGCAAAGCCAAGAACAAGAAAAACCAGGAAGCAGAGGCAGACTCCCAGAAAAAG
GAGAGCCCGAGAGGGACAAGCCAGGAGCTGAGAGTCACCGAAGAACCAGCAGATTGTCAACCAAGTGA
CAAGCTACACCTAAACTTGACAGAACTGGCACTGACAATGAATCATGTATACAGTTTCTCCGTGTTTGAA
CATACTATCTTCCCTTCTGAGTACCTCAGCAGCCACTGGAGGCCAGACTCAACAGAGCCATTGTGTGGC
TGGCTGGCTACAATGCCACGACCCAGGAGATCGTACGGCCTTCTGAGCTGTTGGCAGGAGTCAAAGCATA
CATTGGTTTTCATACAGTCACTGGCCAGTTTTTGGGTGCAGATGCTTCCAGAGTCATCCGCAACGCCCTC
CTGCAGCAGACACAACCACTGGATTCTGTGGGGAACAGACAATCACCACACTCTACACAACTGGTACC
TGGAAAGTCTGCTTAGACAGGCAAGCAGTGGGACCATCATCTCTCCCAGCCATGCAGGCCCTTCGTCAG
CCTGCCAGAGAAGGGGAGCAGAACTTCACTGCAGAGGAGTTCTCTGACATCTCTGAGATGCGGGCCTTG
GCAGAACTCCTGGGCCCTATGGAATGAAGTTCTGAGTAAAACCTGATGTGGCATGTGACCTCTCAGA
TTGTGGAGCTGAAGAAGCTGGTGGTGGAAAACATGGACATACTTGTTCAGATCAGATCCAACCTTAGCAA
GCCGGACTTGATGGCTTCCCTGTGCCCCAGCTGACAGGGGCTGAAAATGTGCTAAAGCGCATGACCATC
ATTGGGGTTATCCTCAGTTTTCAGGGCCATGGCCCAAGAGGGACTTCGGGAGGTTTTCTCCTCCCCTGCC
CATTCTTATGGGTCCCATTGAGTGTGTTGAAGGAGTTTGTCACTCCAGACACAGACATCAAGGTGACCTT
GAGTATCTTTGAGCTGGCATCTGCTGCAGGTGTGGGCTGTGACATTGACCAGCCTTGGTGGCTGCCATT
GCTAATCTGAAAGCTGATACTTCATCTCCTGAGGAGGAATATAAGGTGGCCTGCCTGCTCTTGATCTTTC
TGGCAGTTTCCCTCCCCTCCTTGCACCTGACCCTTCTCCTTTTATAGCATTGAGAAGGATGGTTACAA
CAACAATATTCACTTGTGACCAAGCCATCACCAGGTGTCTGCTGCCCTTTCACGCTCTACAACAAG
AAGATTGAAACTCACCTCAAGGAATTTCTGGTGGTGGCCTCTGTGAGCCTTTCAGCTGGCCAGGAGA
CTGACAAGCTTAAAACCGAAATCGAGAATCCATTTCTCTGCTCATGCGCTTGGTGGTGGAGGAGTCATC
CTTCTGACCCTGGACATGCTGGAGTCTGTTTCCCTTATGTCCTGCTTCGAAATGCCTATCGGGAGGTG
TCTCGGGCCTTCCACCTAAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC210832 representing NM_005337
Red=Cloning site Green=Tags(s)

MSLTSAYQHKLAEKLTILNDRGQGVLRMYNIKKTCDPKSKPPFLLEKSMEPSLKYINKKFPNIDVRNS
TQHLGPVHREKAEIIRFLTNYYQSFVDVMEFRDHVYELLNTIDACQCHFIDINLNFDFTRS YLDLIVTYTS
VILLLSRIEDRRILIGMYNCAHEMLHGHGDP SFARLGQMVLEYDHPLKKT EEF GPHTKAVSGALLSLHF
LFVRRNQGAEQWRS AQLLSLISNPPAMINPANS DTMACEYL SVEVMERWIIIGFLLCHGCLNSNSQCQKL
WKLCLQGS LYITLIREDLVQVHKVTEDLFSS LKGYGKRVADIKESKEHVIANSQFHCQRRQFLRMAVKE
LETVLADEPGLLGP KALFAFMALSFIRDEVTLVRHTENVTKTKTPEDYADSSIAELFLLEGIRSLVRR
HIKVIQQYHLQYLARFDALVLSDI IQNLSVCPEEESIIMSSFVSISSLNLKQVDNGEKFEFSGLRLDWF
RLQAYTSVAKAPLHLHENPDLAKVMNLI VFH SRMLDSVEKLLVETSDLSTFCFLRIFEFKMFAMTLEESA
MLRYAIAFPLICAHFVHCTHEMCP EEPHLKNHGLHHCNSFLEELAKQTSNCVLEICAEQRNLSEQLL PK
HCATTISKAKNKKTRKQRQTPRKGE PERDKPGAESHKRNRSIVTNMDKHLNLTELALTMNHVYSF SVFE
HTIFPSEYLSHLEARLNRAI VWLAGYNATTQEI VRPSELLAGVKAYIGFIQSLAQFLGADASRVIRNAL
LQQTQPLDSCGEQTITTL YTNWYLESLLRQASSGTIILSPAMQAFVSLPREGEQNFSAEEFSDISEMRAL
AELLGPYGMKFLSENLMWHVTSQIVELKLVENMDILVQIRSNFSKPDLMASLLPQLTGAENVLKRMTI
IGVILSFRAMAQ EGLREVFS SHCPFLMGPIECLKEFVTPDIDIKVTL SIFELASAAGVGC DIDPALVAAI
ANLKADTSSPEEYKVA CLLLIFLAVSLPLLATDPSSFSYIEKDGYNINHLTKAIIQVSAALFTLYNK
NIETHLKEFLVVASVSL LQLGQETDKLKTNRRESISLLMRLVVEESSFLTDMLES CFYVLLRNAYREV
SRAFHNL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

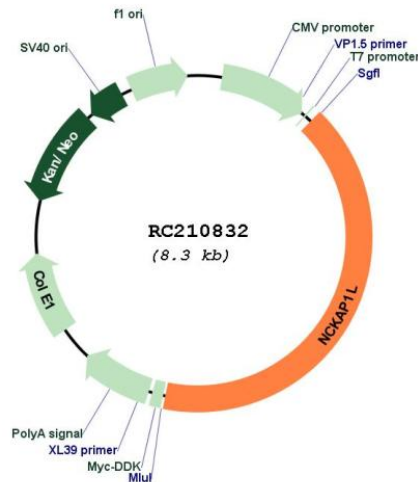
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_005337

ORF Size: 3381 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_005337.5](#)

RefSeq Size: 3869 bp

RefSeq ORF: 3384 bp

Locus ID: 3071

UniProt ID: [P55160](#)

Cytogenetics: 12q13.13-q13.2

Protein Pathways: Regulation of actin cytoskeleton

MW: 128 kDa

Gene Summary: This gene encodes a member of the HEM family of tissue-specific transmembrane proteins which are highly conserved from invertebrates through mammals. This gene is only expressed in hematopoietic cells. The encoded protein is a part of the Scar/WAVE complex which plays an important role in regulating cell shape in both metazoans and plants. Alternatively spliced transcript variants encoding different isoforms have been found. [provided by RefSeq, May 2010]