

Product datasheet for **RC206728**

KASH5 (NM_144688) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KASH5 (NM_144688) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KASH5
Synonyms:	CCDC155
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC206728 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGACCTGCCTGAGGGCCCGTGGGTGGCCCCACTGCGGAAATGTACCTCCGGGAGCGGCCTGAGGAGG
 CAAGGCTGGGAATGCCGGTCAGCTTGGAGGAGCAAATACTCAACTCCACGTTTGAAGCTTGTGACCTCA
 GAGGACAGGCACTGTGGCTGTGGCCAGGTGCTGGCCTACCTGGAGGCTGTGACAGGCCAGGCCCCCAG
 GATGCACGCCTCCAAACATTGGCCAACAGCCTGGACCCCAATGGGGAGGGCCCTAAGGCCACTGTGGACT
 TGGACACTTTCTGGTTGTATGCGTGACTGGATTGCTGCCTGTCAACTACATGGGGATTAGAGCTGGA
 AGAGGAGACCGCCTTCCAGGGAGCCCTGACCTCCAGCAACTGCCATCTGGATGCCCAGAAGCTGAGGAG
 CCAGCCAACCTGGAGAGCTTCGGAGGCGAAGACCCAGACCCGAGCTACAAGCCACAGCTGACCTGCTGA
 GCAGCCTGGAGGACCTGGAGCTCAGCAACCGACGTCTGGTTGGGAGAATGCCAACTGCAGCGGAGCAT
 GGAGACAGCTGAGGAGGGTTCAGCACGCCTTGGGAGGAGATCTTGGCTCTGCGTAAGCAGCTTCACAGC
 ACCCAGCAGGCCCTGCAGTTTGCCTAAGGCCATGGATGAGGAGCTGGAGGACCTGAAGACTCTGGCCAGGA
 GCCTGGAGGAACAGAATCGCAGCCTTCTGGCCAAAGCCCGCAGGCGGAAAAGGAGCAGCAGCATCTGGT
 GGCTGAGATGGAGACTCTGCAGGAGGAGAACGGGAAGCTGCTTGGCCGAGCGGGATGGAGTGAAAAAGAGA
 AGTCAGGAGCTGGCCATGGAGAAGGACACTTTGAAGCGGCAGCTCTTTGAGTGTGAACACCTCATTTGCC
 AAAGAGACACCATCTCTCTGAGCGCACTCGCGATGTGGAGAGCCTGGCCAGACCCCTGGAAGAATACAG
 AGTGACGACGCAGGAACCTGAGGCTGGAGATTTACGCCTGGAGGAGCAGCTGAGTCAGACCTATGAGGGG
 CCCGATGAGCTACCTGAAGGGGCCAGCTGAGAAGAGTGGGCTGGACCGAGCTGTACCCCATCGCTGG
 GCTTGGAGATCGAGGCCATTTCAGACAGAAACAGGAAGTGGCAACTGCTGATCTCTCAACCCCTCTGTGTGG
 GGTTGGCAGTGGGAGGAAGTCATCCATGAGACCAGTGAAGAACTGAGTTTCCATCTGAAGCCCCAGCT
 GGGGGACAGAGAACTTCCAGGGAGAGCCAGCGCACCCCTGAAGAAGGAAGGAAGGAGCCATCCATGTGGT
 TGACCAGAAGAGAGGAAGAGGAGGATGCAGAGAGCCAGGTACGGCTGATCTCCCTGTCCCTCTAGGAGC
 CCCTCGCCCTGGAGACATCCAGAAAACCTCCAGAGAGACCTGCGCGGCGGGAACCTCCAGCAAGCCCTG
 GTGCTGTGATGAAAAAGCTGGTCCCAGTCAGGAGGAGGGCCTGGGGCCAGCTCTGCCTGCCCCACAGC
 GGCTCAGAGTCACTCGACATCCACTGATCCCAGCTCCTGTCTGGGCTGCTGCTGCTGCTGCTGCTCTC
 TGTCTGCTGCTGGCCCGTCCCACCTCCCACCTGGCCCCACCTCCAGCTCTGTACTCTCCAGCCCCCT
 CCAGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206728 protein sequence
 Red=Cloning site Green=Tags(s)

MDLPEGPVGGPTAEMYLRERPEEARLGMPVSLEEILNSTFEACDPQRTGTVAVAQVLAYLEAVTGQGPQ
 DARLQTLANSLDPNGEGPKATVDLDTFLVVMRDWIAACQLHGGLELEEETAFQGALTSQQLPSGCPAEAE
 PANLESFGGEDPRPELQATADLLSSLEDLEL SNRRLVGENAKLQRSMETAEEGSARLGEEILALRKQLHS
 TQQALQFAKAMDEELEDLKTARSLEEQRNRSLLAARQAEKEQQHLVAEMETLQEENGKLLAERDGVKKR
 SQELAMEKDTLKRQLFECEHLICQRDITL SERTRDVESLAQTLEEYRVTTQELRLEISRLEEQLSQTYES
 PDELPEGAQLRRVGTWTELLPPSLGLEIEAIRQKQEVATADLSNPLCGVWQWEEVIHETSETEFPSEAPA
 GGQRNFQGEPAHPPEEGRKEPSMWL TRREEEEDAESQVTADLPVPLGAPRPGDIPENPPPARRELQAL
 VPVMKKLVPVRRRAWQLCLPPQRLRVTRHPLIPAPVGLLLLLLLSVLLLLGPSPPPTWPHLQLCYLQPP
 PV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6784_e02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_144688

ORF Size: 1686 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_144688.5](#)

RefSeq Size: 2383 bp

RefSeq ORF: 1689 bp

Locus ID: 147872

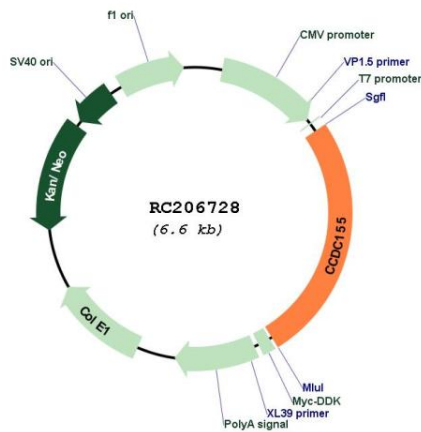
UniProt ID: [Q8N6L0](#)

Cytogenetics: 19q13.33

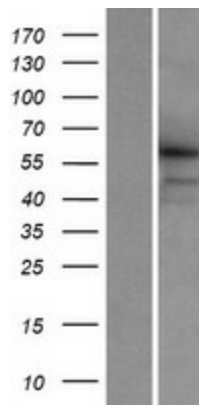
MW: 62.8 kDa

Gene Summary: As a component of the LINC (Linker of Nucleoskeleton and Cytoskeleton) complex, involved in the connection between the nuclear lamina and the cytoskeleton. The nucleocytoplasmic interactions established by the LINC complex play an important role in the transmission of mechanical forces across the nuclear envelope and in nuclear movement and positioning. Required for telomere attachment to nuclear envelope in the prophase of meiosis and for rapid telomere prophase movements implicating a SUN1/2:KASH5 LINC complex in which SUN1 and SUN2 seem to act at least partial redundantly. Required for homologue pairing during meiotic prophase in spermatocytes and probably oocytes. Essential for male and female gametogenesis. Recruits cytoplasmic dynein to telomere attachment sites at the nuclear envelope in spermatocytes. In oocytes is involved in meiotic resumption and spindle formation.[UniProtKB/Swiss-Prot Function]

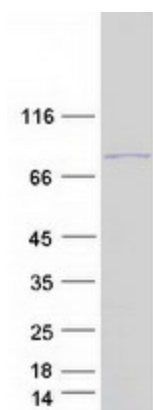
Product images:



Circular map for RC206728



Western blot validation of overexpression lysate (Cat# [LY408181]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206728 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CCDC155 protein (Cat# [TP306728]). The protein was produced from HEK293T cells transfected with CCDC155 cDNA clone (Cat# RC206728) using MegaTran 2.0 (Cat# [TT210002]).