

Product datasheet for **RC209536**

KHDC4 (NM_014949) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KHDC4 (NM_014949) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KHDC4
Synonyms:	BLOM7; KIAA0907; SNORA80EHG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC209536 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

 TTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

 ATGTCGCGGGGAGCGGACACATCCTGGAGCTGGCGGGCGCCGAGCAAATGGGACCAACCAGCTCCAG
CCCCACTTCTCTTCTCCCGCCAGCGGCCCCAGGTGGGGAGGTACCCAGCAGTGGGGGAAGTCTGGGGG
CACCACAGCTGCTCCTTCAAGAGCCTTGGATGCTGCTGCTGTGGCTGCCAAGATTAATGCCATGCTC
ATGGCAAAAGGGAAGCTGAAACCAACTCAGAATGCTTCTGAGAAGCTTCAGGCTCCTGGCAAAGCCTAA
CTAGCAATAAAAGCAAGGATGACCTGGTGGTAGCTGAAGTAGAAATTAATGATGTGCCTCTCACATGTAG
GAATTGCTGACTCGAGGACAGACTCAAGACGAGATCAGCCGACTTAGTGGGGCTGCAGTATCAACTCGA
GGGAGGTTTCATGACAACTGAGGAAAAAGCCAAAGTGGGACCAGGGGATCGTCCATTATATCTTCATGTT
AGGGCCAGACACGGGAATTAGTGGACAGAGCTGTAACCGGATCAAAGAAATTATACCAATGGAGTGGT
AAAAGCTGCCACAGGAACAAGTCCAACCTTTAATGGTGAACAGTAAGTGTCTATCACCAGCCAGCACCC
ATCGCTCAGTTGTCTCCAGCTGTAGCCAGAAGCCTCCCTTCCAGTCAGGGATGCATTATGTTCAAGATA
AATTATTTGTGGGTCTAGAACATGCTGTACCCACTTTAATGTCAAGGAGAAGGTGGAAGGTCCAGGCTG
CTCCTATTTGCAGCACATTGAGATTGAAACAGGTGCCAAAGTCTTCTGCGGGGCAAAGGTTGAGGCTGC
ATTGAGCCAGCATCTGGCCGAGAAGCTTTTGAACCTATGTATATTTACATCAGTCACCCCAAACAGAA
GCCTGGCTGCTGCCAAGAAGCTTTGTGAGAATCTTTGCAAACAGTTCATGCTGAATACTCTAGATTTGT
GAATCAGATTAATACTGCTGTACCTTTACCAGGCTATACACAACCTCTGCTATAAGTAGTGTCCCTCCT
CAACCACCATATTATCCATCCAATGGCTATCAGTCTGGTACCCTGTTGTTCCCTCCTCAGCAGCCAG
TTCAACCTCCCTACGGAGTACCAAGCATAGTGCCACCAGCTGTTTCATTAGCACCTGGAGTCTTGCCGGC
ATTACCTACTGGAGTCCACCTGTGCCAACACAATACCGGATAACACAAGTGCAGCCTCCAGCTAGCACT
GGACAGAGTCCGATGGGTGGTCTTTTATTCTGCTGCTCCTGTCAAACTGCCTTGCTGCTGGCCCCC
AGCCCCAGCCCCAGCCCCAGCCCCACTCCCAAGTCAGCCCCAGGCACAGAAGAGACGATTACAGAGGA
GCTACCAGATGAACGGGAATCTGGACTGCTTGGATACCAGCATGGACCCATTATGACTAATTTAGGT
ACAGGCTTCTCCAGTCAGAATGAGATTGAAGGTGCAGGATCGAAGCCAGCAAGTTCCTCAGGCAAAGAGA
GAGAGAGGGACAGGCAGTTGATGCCTCCACCAGCCTTCCAGTGACTGGAATAAAACAGAGTCCGATGA
AAGGAATGGGTCTGGGACCTTAACAGGGAGCCATGATTATCCAGCCAAGAAGATGAAACTACAGAGAAG
GGATTTGGCTTGGTGGCTTATGCTGCAGATTATCTGATGAAGAGGAGGAACATGGAGGTCATAAAATG
CAAGTAGTTTTCCACAGGCTGGAGTTTGGGATACCAATATCCTTCATCACACCACGAGCTAAACAACA
GATGCCATTCTGGATGGCTCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209536 protein sequence

Red=Cloning site Green=Tags(s)

 MSAGSATHPGAGRRSKWDQPAPAPLLFLPPAAPGGEVTS SGGSPGGTTAAPSGALDAAA VAAKINAML
MAKGKLPKPTQNASEKLQAPGKGLTSNKSDDLVAEVEINDVPLTCRNLLTRGQTQDEISRLSGAAVSTR
GRFMTTEEKAKVGPGRPLYLHVQGQRELVDRAVNRIKEIITNGVVKAATGTSPTFNGATVTVYHQAPAP
IAQLSPA V SQKPPFQSGMHYVQDKLFVGLEHAVPTFNVKEKVEGPGCSY LQHIQIETGAKVFLRGKSGC
IEPASGREAFEP MYIYISHPKPEGLAAAKKLCENLLQTVHAEYSRFVNQINTAVPLPGYTQPSA ISSVPP
QPPYYPSNGYQSGYPVPPPPQPPVQPPYGVPSIVPPAVSLAPGVLPALPTGVPPVPTQYPITQVQPPAST
GQSPMGGPFI PAAPVK TALPAGPQPQPQPPLPSQPQAQKRRFTEELPDERESGLLGYQHGP I HMTNLG
TGFSSQNEIEGAGSKPASSSGKERERDRQLMPPPAFPVTGIKTESDERNGSGTLTGSHDYP AKKMKTTEK
GFGLVAYAADSSDEEEHGGHKNASSFPQGWSLGYQYPSQPRAKQMPFWMAP

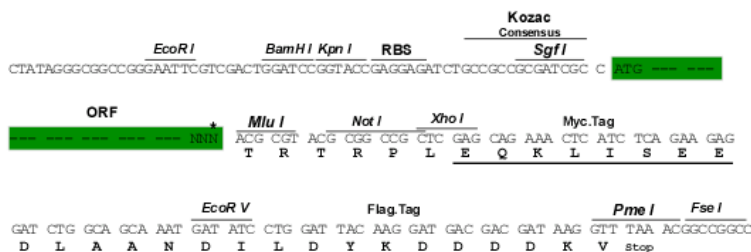
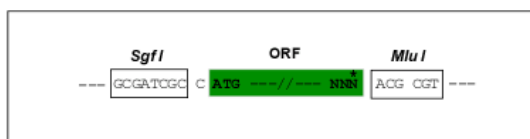
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6760_d03.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 014949

ORF Size: 1842 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.

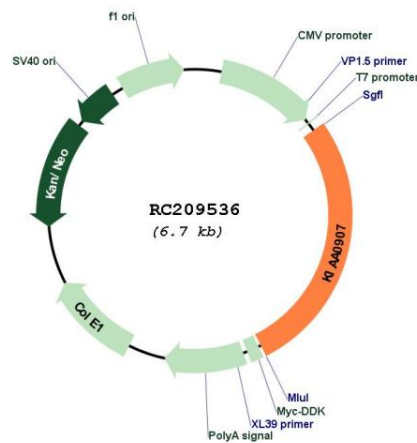
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM 014949.4

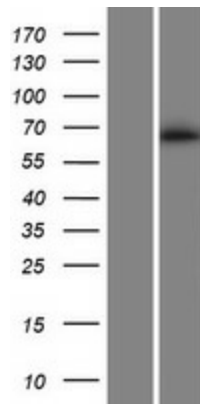
RefSeq Size: 2960 bp

RefSeq ORF:	1845 bp
Locus ID:	22889
UniProt ID:	Q7Z7F0
Cytogenetics:	1q22
MW:	64.8 kDa
Gene Summary:	RNA-binding protein involved in pre-mRNA splicing (PubMed:19641227). Interacts with the PRP19C/Prp19 complex/NTC/Nineteen complex which is part of the spliceosome (PubMed:19641227). Involved in regulating splice site selection (PubMed:19641227). Binds preferentially RNA with A/C rich sequences and poly-C stretches (PubMed:23144703). [UniProtKB/Swiss-Prot Function]

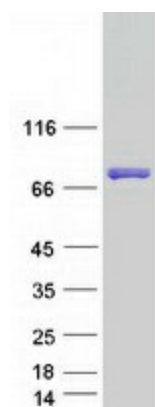
Product images:



Circular map for RC209536



Western blot validation of overexpression lysate (Cat# [LY414915]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209536 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified KHDC4 protein (Cat# [TP309536]). The protein was produced from HEK293T cells transfected with KHDC4 cDNA clone (Cat# RC209536) using MegaTran 2.0 (Cat# [TT210002]).