

Product datasheet for RC205428

KHDRBS2 (NM_152688) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KHDRBS2 (NM_152688) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KHDRBS2
Synonyms:	SLM-1; SLM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205428 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGAGGAGAAATATTTGCCTGAGCTGATGGCAGAGAAAGATAGCCTGGATCCATCTTTTGTGCATG
CGTCGCGCCTTTTGGCAGAAGAAATTGAAAAGTTTCAAGGTTCTGATGGAAAAAGGAAGACGAAGAAAA
GAAGTATCTTGATGTCATCAGCAACAAAAACATAAAGCTCTCAGAAAGAGTACTGATTCTGTCAAGCAG
TATCCAAAGTTCAATTTTGTGGGAAATTGCTTGGACCAAGAGGAACTCCTTGAAGAGGCTACAGGAAG
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GAAGAGTGGGGAAGCCAAATATGCCCACTTGAGTGATGAGCTTCATGTATTAATTGAAGTGTTCCTCA
CCTGGGGAAGCTTATTCAGTATGAGTCATGCATTGGAAGAGATTAATAAATTCCTGGTTCTGACTACA
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CAGAGGTATTAGAGGCAGAGGGATCAGAATAGCTCCACAGCTCCTTCAAGGGGCCGTGGGGTGCCATT
CCTCCTCCCCACCACCTGGACGAGGTGTTCTACCCCTCGGGGAAGCACTGTAACCCGTGGAGCGCTTC
CAGTGCCACCTGTAGCAAGAGGTGTCCCTACCCCTCGAGCCCGGGGGGCACCAACAGTGCCAGGATACAG
GGCACCTCCTCCTCAGCCCATGAAGCTTATGAAGAATATGGTTATGATGATGGCTACGGGGGTGAATAT
GATGACCAGACCTATGAGACTTATGATAACAGCTACGCGACCCAAACACAAAGTGTGCTGAATACTATG
ACTACGGTCATGGAGTAAGTGAGGATGCCTATGACAGCTACGCACCAGAAGAATGGGCCACAACCAGCTC
TAGCTTGAAGGCACCACCGCAAAGGTACGCCAGAGGGGATACAGGGAACACCCCTATGGTAGATAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC205428 protein sequence
Red=Cloning site Green=Tags(s)

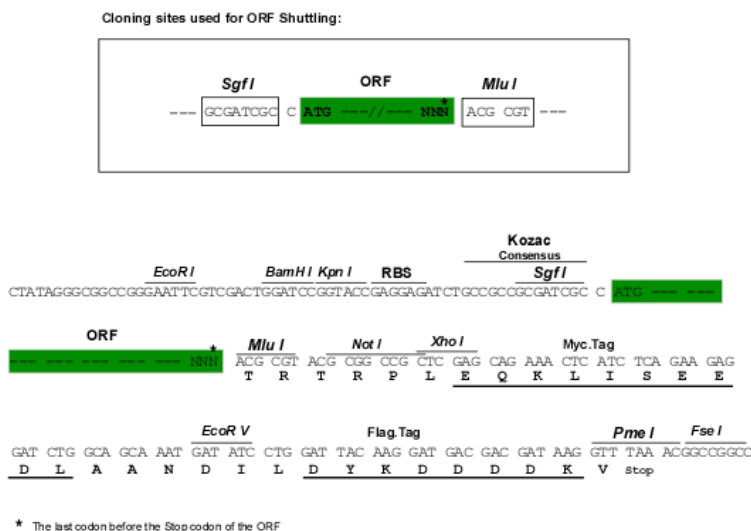
MEEEKYLP ELMAEKDSLDPFSFVHASRLLAEEIEKFQGS D GKDEEEKYLDV I SNKNIKLSERVLIPVKQ
YPKFNFVGKLLGPRGNLSKRLQEETGAKMSILGKGSMRDKAKEEELRKSGEAKY A H L S D E L H V L I E V F A P
PGEAYS R M S H L A E E I K K F L V P D Y N D E I R Q E L R E L S Y L N G S E D S R G R G I R G R G I R I A P T A P S R D R G G A I
P P P P P G R G V L T P R G S T V T R G A L P V P P V A R G V P T P R A G A P T P G Y R A P P P A H E A Y E E Y S G D G G G E Y
D D O T Y E T Y D N S Y A T O S V P E Y D Y G H G V S E D A Y S A P E A W A T T S S L K A P P O R S A R G G Y G R E H P Y G R I

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6537_g09.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_152688

ORF Size: 1047 bp

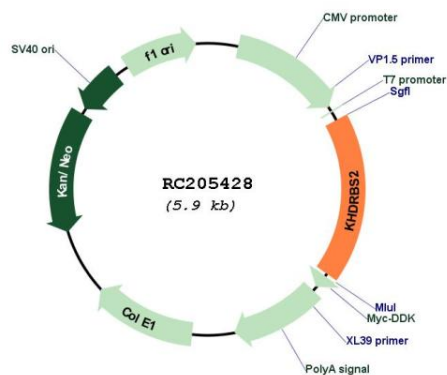
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

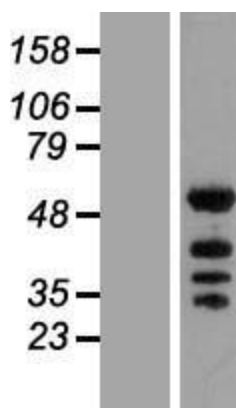
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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:	<u>NM_152688.1</u> , <u>NP_689901.1</u>
RefSeq Size:	2336 bp
RefSeq ORF:	1050 bp
Locus ID:	202559
UniProt ID:	<u>Q5VWX1</u>
Cytogenetics:	6q11.1
Domains:	KH
MW:	38.9 kDa
Gene Summary:	RNA-binding protein that plays a role in the regulation of alternative splicing and influences mRNA splice site selection and exon inclusion. Binds both poly(A) and poly(U) homopolymers. Phosphorylation by PTK6 inhibits its RNA-binding ability (By similarity). Induces an increased concentration-dependent incorporation of exon in CD44 pre-mRNA by direct binding to purine-rich exonic enhancer. Can regulate alternative splicing of NRXN1 in the laminin G-like domain 6 containing the evolutionary conserved neurexin alternative spliced segment 4 (AS4) involved in neurexin selective targeting to postsynaptic partners. Regulates cell-type specific alternative splicing of NRXN1 at AS4 and acts synergistically with SAM68 in exon skipping. In contrast acts antagonistically with SAM68 in NRXN3 exon skipping at AS4. Its phosphorylation by FYN inhibits its ability to regulate splice site selection. May function as an adapter protein for Src kinases during mitosis.[UniProtKB/Swiss-Prot Function]

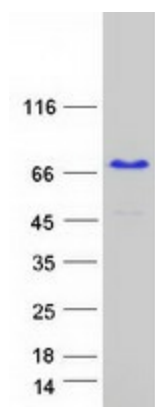
Product images:



Circular map for RC205428



Western blot validation of overexpression lysate (Cat# [LY407364]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205428 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified KHDRBS2 protein (Cat# [TP305428]). The protein was produced from HEK293T cells transfected with KHDRBS2 cDNA clone (Cat# RC205428) using MegaTran 2.0 (Cat# [TT210002]).