

Product datasheet for **RC209824**

KHDRBS3 (NM_006558) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KHDRBS3 (NM_006558) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KHDRBS3
Synonyms:	Etle; etoile; SALP; SLM-2; SLM2; T-STAR; TSTAR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209824 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGAGAAGTACCTGCCGGAGCTGATGGCGGAGAAGGACTCCCTGGACCCCTCCTTCACGCACGCC
TGCGCCTGGTGAACCAAGAAATAGAAAAGTTTCAAAAAGGAGAAGGCAAGGAAGAAAAGTACATCGATGT
GGTGATTAATAAGAACATGAAGCTGGGACAGAAAGTGTTAATTCCTGAAAACAGTTCCTAAGTTCAC
TTTGTGGGAAACTTTTGGTCCACGTGGCAATCTCTGAAGCGTTTACAAGAAGAACTTGACAAAA
TGTCATCCTTGGAAAGTTCCATGAGAGACAAGGCCAAGGAAGAAGAGTTGAGGAAAAGTGGAGAAGC
GAAGTACTTCCATCTCAATGATGATCTCCATGTTCTCATTGAAGTGTGTCACCTGCAGAAAGCTTAT
GCCAGGATGGGACATGCTTTGGAAGAAATCAAAAAGTTCCCTCATCCCTGATTATAATGATGAGATCAGGC
AAGCACAGCTCCAGGAGTTAACATATTTGAATGGTGGTTCAGAAAATGCAGATGTTCCAGTGGTTCGAGG
GAAACCCACCTTGCCTACAAGAGGTGTACCAGCCCCAGCAATAACCAGGGGAAGGGGAGGAGTTACAGCC
CGGCCAGTTGGAGTTGTAGTACCAGGGGACGCCAACTCCAGAGGAGTCTGTCCACCCGAGGGCCAG
TGAGTCGGGGAAGAGGACTTCTCACTCCAGAGCAAGAGGAGTCCCCCAACTGGGTACAGACCTCCACC
GCCACCCCGACACAAGAGACTTATGGAGAATATGACTATGATGATGGATATGGCACTGCTTATGATGAA
CAGAGTTATGATTCCTATGATAACAGCTATAGCACCCAGCCAAAGTGGTGTGATTACTATGATTACG
GACATGGACTCAGTGAGGAGACTTATGATTCCTACGGGCAAGAAGAGTGGACTAACTCAAGACACAAGGC
ACCTTCAGCGAGGACAGCAAAGGGCTCTACAGAGACCAGCCATATGGCAGATAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC209824 protein sequence
Red=Cloning site Green=Tags(s)

MEEKYLPELMAEKDSLDPSTHALRLVNQIEIKFQKGEKKEEKYIDVVINKNMKLGQKVLIPVKQFPKFN
 FVGKLLGPRGNSLKRLQEETLTKMSILGKGSMDKAKEEELRKSGEAKYFHLNDDLHVLIEVFAPPAEAY
 ARMGHALEEIKKFLIPDYNDIIRQAQLQELTYLNGGSENADVPVVRGKPTLRTRGVPAPAI TRRGGVTA
 RPVGVVVPRGTPTRGVLSTRGPVSRGRLLTPRARGVPPTGYRPPPPPTQETYGEYDYGTYDE
 QSYDSYDNSYSTPAQSGADYYDYGHLSEETYDSYGQEEWTNSRHKAPSARTAKGYRDQPYGRY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6530_f04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006558

ORF Size: 1038 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_006558.3](#)

RefSeq Size: 1963 bp

RefSeq ORF: 1041 bp

Locus ID: 10656

UniProt ID: [O75525](#)

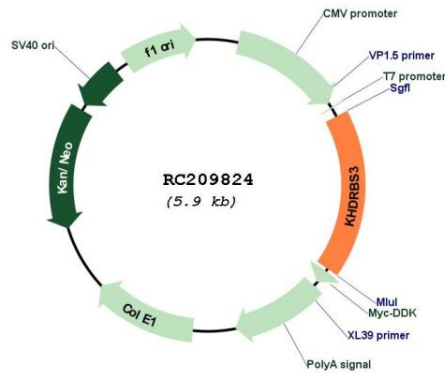
Cytogenetics: 8q24.23

Domains: KH

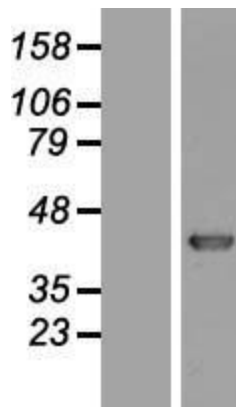
MW: 38.7 kDa

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 preferentially to the 5'-[AU]UAAA-3' motif in vitro. Binds optimally to RNA containing 5'-[AU]UAA-3' as a bipartite motif spaced by more than 15 nucleotides. Binds poly(A). RNA-binding abilities are down-regulated by tyrosine kinase PTK6 (PubMed:10564820, PubMed:19561594, PubMed:26758068). Involved in splice site selection of vascular endothelial growth factor (PubMed:15901763). In vitro regulates CD44 alternative splicing by direct binding to purine-rich exonic enhancer (By similarity). Can regulate alternative splicing of neurexins NRXN1-3 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 such as neuroligins and LRRTM family members (PubMed:26758068). Targeted, cell-type specific splicing regulation of NRXN1 at AS4 is involved in neuronal glutamatergic synapse function and plasticity (By similarity). May regulate expression of KHDRBS2/SLIM-1 in defined brain neuron populations by modifying its alternative splicing (By similarity). Can bind FABP9 mRNA (By similarity). May play a role as a negative regulator of cell growth. Inhibits cell proliferation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC209824



Western blot validation of overexpression lysate (Cat# [LY416573]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209824 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).