

Product datasheet for **MC207268**

Khdrbs3 (NM_010158) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Khdrbs3 (NM_010158) Mouse Untagged Clone
Tag: Tag Free
Symbol: Khdrbs3
Synonyms: Etle; Salp; SLM-2; SIm2; T-STAR
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC207268 representing NM_010158
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGGAGAAGTACCTGCCGGAGCTGATGGCGGAGAAGGACTCTCTGGACCCCTCCTTCACGCACGCC
 TGCCTTGGTGAACCGAGAAATAGAAAAGTTTCAAAGGGAGAAGGCAAGGAGGAAGAGAAGTACATTGA
 CGTGGTGATAAACAAGAACATGAAGCTGGGACAGAAGGTGCTGATTCCCCTGAAGCAGTTTCCCAAGTTC
 AACTTTGTGGGAAGCTTTTGGGTCCGCGTGGCAATTCCTGAAGCGCTTACAAGAAGAAACGTTGACAA
 AAATGTCCATCCTTGGCAAAGGTTCCATGAGAGACAAGGCAAAGGAGGAAGAGCTGAGGAAAAGTGAGAG
 AGCGAAGTACTTTCACCTCAATGACGACCTGCACGTGCTCATTGAAGTGTTCGCACCCCCAGCAGAAGCA
 TATGCCCGGATGGGGCAGCCTTGAAGAGATCAAGAAATTCCTGATCCCTGACTATAATGATGAAATCA
 GGCAAGCACAACCTCAGGAGTTAACATATTTGAATGGAGGTTTCAGAAAATGCAGATGTCCAGTGGTTCC
 AGGGAAATCTACTTTGCGTACGAGAGGTGTAACACACCCAGCAATAACCAGGGGAAGAGGAGGAGTCACA
 GCCAGGCCTGTTGCAGTTGGGGTACCACGTGGGACACCGACTCCCCGAGGAGTCTTTCCACCCGAGGGC
 CAGTGAGCCGGGAAGAGGCCTTCTCACTCCCAGAGCAAGAGGTGTCCCCCAACCGGATACAGACCTCC
 CCCGCCACCCCAACACAGGAGACCTATGGAGAGTATGACTATGACGATGGGTACGGTACTGCCTATGAT
 GAGCAGAGCTATGACTCCTATGACAACAGCTACAGCACCCAGCACAAAGTGCAGCTGATTACTACGATT
 ATGGGCATGGACTCAGCGAGGACGCTTATGACTCCTATGGGCAAGAGGAATGGACTAACTCAAGACATAA
 GGCTCCTTCGGCGAGGACGGCGAAGGGCGTCTACAGAGACCAGCCATATGGCAGATACTGA

ACGGTACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_010158



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Insert Size:	1041 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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_010158.2 , NP_034288.2
RefSeq Size:	1954 bp
RefSeq ORF:	1041 bp
Locus ID:	13992
UniProt ID:	Q9R226
Cytogenetics:	15 30.36 cM
Gene Summary:	<p>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 (PubMed:19457263). Binds optimally to RNA containing 5'-[AU]UAA-3' as a bipartite motif spaced by more than 15 nucleotides (By similarity). Binds poly(A). RNA-binding abilities are down-regulated by tyrosine kinase PTK6 (PubMed:15471878). Involved in splice site selection of vascular endothelial growth factor (By similarity). 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. High concentrations in forebrain structures block splicing inclusion of NRXN1-3 AS4 exons while low concentrations favor their inclusion. Targeted, cell-type specific splicing regulation of NRXN1 at AS4 is involved in neuronal glutamatergic synapse function and plasticity and is linked to behavioral aspects (PubMed:22196734, PubMed:23637638, PubMed:24469635, PubMed:27174676). Regulates expression of KHDRBS2/SLIM-1 in defined neuron populations in the hippocampus by modifying its alternative splicing resulting in a transcript predicted to undergo nonsense-mediated decay (PubMed:25505328). Can bind FABP9 mRNA (PubMed:19916944). May play a role as a negative regulator of cell growth. Inhibits cell proliferation.[UniProtKB/Swiss-Prot Function]</p>