

## 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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC207268 representing NM_010158 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**C

ATGGAGGAGAAGTACCTGCCGAGCTGATGGCGGAGAAGGACTCTCTGGACCCCTCCTTCACGCACGCCC  
 TGCGCTTGGTGAACCGAGAAATAGAAAAGTTTCAAAGGGAGAAGGCAAGGAGGAAGAGAAGTACATTGA  
 CGTGGTGATAACAAGAACATGAAGCTGGGACAGAAGGTGCTGATTCCCGTGAAGCAGTTTCCCAAGTTC  
 AACTTTGTGGGAAGCTTTTGGTCCGCTGGCAATTCCTGAAGCGCTTACAAGAAGAAACGTTGACAA  
 AAATGTCCATCCTTGGCAAAGGTTCCATGAGAGACAAGGCAAAGGAGGAAGAGCTGAGGAAAAGTGGAGA  
 AGCGAAGTACTTTACCTCAATGACGACCTGCACGTGCTCATTGAAGTGTTGCGACCCCCAGCAGAAGCA  
 TATGCCCGGATGGGACACGCTTGAAGAGATCAAGAAATTCCTGATCCCTGACTATAATGATGAAATCA  
 GGCAAGCACAACCTCCAGGAGTTAACATATTTGAATGGAGGTTGAGAAAATGCAGATGTCCAGTGTTTCG  
 AGGGAAATCTACTTTGCGTACGAGAGGTGTAACCTACACGACCAATACCAGGGGAAGAGGAGGAGTCACA  
 GCCAGGCCTGTTGCAGTTGGGGTACCACGTGGGACACCGACTCCCCGAGGAGTCTTTCCACCCGAGGGC  
 CAGTGAGCCGGGAAGAGGCCTTCTCACTCCCAGAGCAAGAGGTGTCCCCCAACCGGATACAGACCTCC  
 CCCGCCACCCCAACACAGGAGACCTATGGAGAGTATGACTATGACGATGGGTACGGTACTGCCTATGAT  
 GAGCAGAGCTATGACTCCTATGACAACAGCTACAGCACCCAGCACAAAGTGCAGCTGATTACTACGATT  
 ATGGGCATGGAAGTACGAGGAGCCTTATGACTCCTATGGGCAAGAGGAATGGACTAACTCAAGACATAA  
 GGCTCCTTCGGCGAGGACGGCGAAGGGCGTCTACAGAGACCAGCCATATGGCAGATA**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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<b>ACCN:</b>	NM_010158
<b>Insert Size:</b>	1041 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u>NM_010158.2, NP_034288.2</u>
<b>RefSeq Size:</b>	1954 bp
<b>RefSeq ORF:</b>	1041 bp
<b>Locus ID:</b>	13992
<b>UniProt ID:</b>	<u>Q9R226</u>
<b>Cytogenetics:</b>	15 30.36 cM

**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 (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]