

Product datasheet for **MG205226**

Khdrbs3 (NM_010158) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Khdrbs3 (NM_010158) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Khdrbs3
Synonyms:	Etle; Salp; SLM-2; SIm2; T-STAR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205226 representing NM_010158 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGAGAAGTACCTGCCGGAGCTGATGGCGGAGAAGGACTCTCTGGACCCCTCCTTCACGCACGCC
TGCCTTGGTGAACCGAGAAATAGAAAAGTTTCAAAGGGAGAAGGCAAGGAGGAAGAGAAGTACATTGA
CGTGGTGATAAACAAGAACATGAAGCTGGGACAGAAGGTGCTGATTCCCGTGAAGCAGTTTCCCAAGTTC
AACTTTGTGGGAAGCTTTTGGTCCGCGTGGCAATTCCTGAAGCGCTTACAAGAAGAAACGTTGACAA
AAATGTCCATCCTTGGCAAAGGTTCCATGAGAGACAAGGCAAAGGAGGAAGAGCTGAGGAAAAGTGGAGA
AGCGAAGTACTTTACCTCAATGACGACCTGCAGTGTCTATTGAAGTGTTCGCACCCCCAGCAGAAGCA
TATGCCCGGATGGGACACGCCTTGGAAAGATCAAGAAATTCCTGATCCCTGACTATAATGATGAAATCA
GGCAAGCACAACCTCCAGGAGTTAACATATTTGAATGGAGGTTTCAAGAAATGCAGATGTCCAGTGGTTTCG
AGGAAAATCTACTTTGCGTACGAGAGGTGTAACACTACCCAGCAATAACCAGGGGAAGAGGAGGATCACA
GCCAGGCTGTTGCAGTTGGGTACCACGTGGGACACCGACTCCCGAGGAGTCTTTCCACCCGAGGGC
CAGTGAGCCGGGAAGAGGCCTTCTCACTCCCAGAGCAAGAGGTGTCCCCCAACCGGATACAGACCTCC
CCCGCCACCCCAACACAGGAGACCTATGGAGAGTATGACTATGACGATGGGTACGGTACTGCCTATGAT
GAGCAGAGCTATGACTCCTATGACAACAGCTACAGCACCCAGCAAAAGTGCAGCTGATTACTACGATT
ATGGGCATGGACTCAGCGAGGACGCTTATGACTCCTATGGCAAGAGGAATGGACTAACTCAAGACATAA
GGCTCCTTCGGCGAGGACGGCGAAGGGCTCTACAGAGACCAGCCATATGGCAGATAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205226 representing NM_010158
 Red=Cloning site Green=Tags(s)

MEEKYLPELMAEKDSLDPSTHALRLVNREIEKFQKGEKKEEKYIDVVINKNMKLGQKVLIPVKQFPKF
 NFVGLKLGPRGNLKRLEETLTKMSILGKGSMDKAKEEELRKSGEAKYFHLNDDLHVLIEVFAPPAEA
 YARMGHALLEEIKKFLIPDYNDEIRQAQLQELTYLNGGSENADVPVVRGKSTLRTRGVTTPAITRGRGGVT
 ARPVAVGVPRGTPTRGVLSTRGPVSRGRGLLTPRARGVPPTGYRPPPPPTQETYGEYDYGDTAYD
 EQSYDSYDNSYSTPAQSAADYYDYGHGLSEDAYDSYGQEEWTNSRHKAPSARTAKGVYRDQPYGRY

TRTRPLE - GFP Tag - V

Restriction Sites:

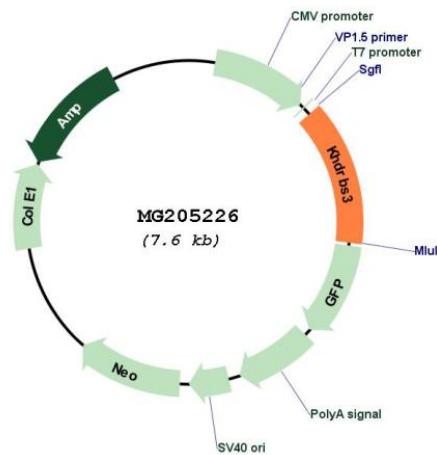
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_010158

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:	<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:

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]