

Product datasheet for **MG207062**

Khdrbs1 (NM_011317) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Khdrbs1 (NM_011317) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Khdrbs1
Synonyms: p62; p68; Sam68
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG207062 representing NM_011317
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGCGCCGGGACGATCCTGCCTCGCGCCTCACCCGGTCTCGGGCCGCAGCTGCTCCAAGGACCCGT
CAGGTGCCACCCCTCGGTGCGTCTGACCCCGTCTCGGCCGTGCGCGCTTCTCACCGGCCCGGGGAGG
GGGAGGTGGGCCAGAGGAGGCGCTCGGCCTCGCCGCCACCCAGCCGCGCCGCTGCTGCCTCCCTCC
ACCCCTGGTCCCAGCGACGGTGGTGGTTCCGCGCCGACCCCGCTGCTGCCCCGTGACCCACAGCCG
CGGTCAAGATGGAGCCGAGAATAAGTACCTGCCTGAACCTCATGGCCGAGAAGGACTCGTCGACCCGTC
CTTCACTCAGCCATGCAGCTGCTGTCCTAGAAATTGAGAAGATTCAGAAGGGAGAGTCAAAAAAGAT
GACGAGGAGAATTATTTGGATTTATTTTCTCATAAGAACATGAAGCTGAAAGAACGCGTGTGATACCTG
TCAAGCAGTATCCAAAGTTCAATTTTGTGGGAAGATTCTTGGACCACAAGGAAATACAATCAAAAGACT
CCAGGAAGAGACTGGTGCAAAGATCTGTCTTGGGGAAGGGTTCAATGAGAGACAAAGCCAAGGAGGAA
GAGTTGCGCAAGGGTGGAGACCCAAATATGCCATTTAAATATGGATCTGCATGTCTTCATTGAAGTCT
TTGGACCCCGTGTGAAGCTTATGCTCTTATGGCCATGCTATGGAAGAAGTCAAGAAGTTCTAGTACC
AGATATGATGGATGATATCTGTGAGGAGCAGTTTCTAGAATTGTCCTACTTGAACGGAGTACCTGAACCC
TCTCGTGGTGTGGGGTATCTGTGAGAGGACGAGGACTGCCCTCCTCCACCTGTTCCAGAGGAC
GTGGTGTGGACCACCTAGAGGAGCTTTGGTTCGTGGAACCCAGTGAAGGCTCCATCACCAGAGGTGC
CACTGTGACTCGAGGAGTGCCACCCCACTACTGTGAGGGGTGCTCCAACACCAAGAGCTCGGACAGCT
GGGATTCAGAGAATACCTTTGCCTCCCACACCTGCACCAGAAACATACGAAGATTATGGATATGATGATA
CATACGCAGAACAGAGTTACGAAGGCTATGAAGGCTATTACAGCCAGAGTCAAGGGGAGTCAAGATTA
TGACTATGGACATGGGGAGCTCCAAGATTCTTACGAAGCCTACGGACAAGATGACTGGAATGGGACCAGG
CCATCACTGAAGGCTCCTCAGCTAGGCCAGTGAAGGGAGCATACAGAGAGCATCCATATGGACGTTAT

AGCGGACCGACGCTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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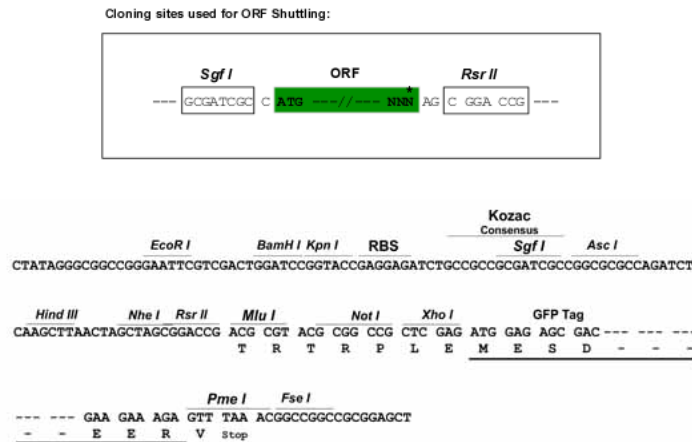
Protein Sequence: >MG207062 representing NM_011317
Red=Cloning site Green=Tags(s)

MQRDDPASRL TRSSGRSCSKDPSGAHPSVRL TPSRPSPLPHRPRGGGGGPRGGARASPATQPPPLLPPS
 TPGPDATVVGSAPTPLLPPSATAAVKMEPENKYLPELMAEKDSLDPSTHAMQLLSVEIEKIQKGESKDD
 DEENYLDLFSHKNMKLKERVLPVKQYPKFNFGKILGPQGNTIKRLQEETGAKISVLGKGSMDKAKEE
 ELRKGKDPKYAHLNMDLHVFIIEVFGPPCEAYALMAHAMEEVKFLVPMDDICQEQFLELSYLNQVPEP
 SRGRGVSVRGGAAPPPVPRGRGVGPPRGALVRGTPVRGSI TRGATVTRGVPPPPTVRGAPTPRARTA
 GIQRIPLPPTPAPETYEDYGYDDTYAEQSYEGYEGYYSQSQGESEYYDYGHGELQDSYEAYGQDDWNGTR
 PSLKAPPARPVKGAYREHPYGRY

SGPTRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_011317

ORF Size: 1329 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_011317.4](#), [NP_035447.3](#)

RefSeq Size: 3762 bp

RefSeq ORF: 1332 bp

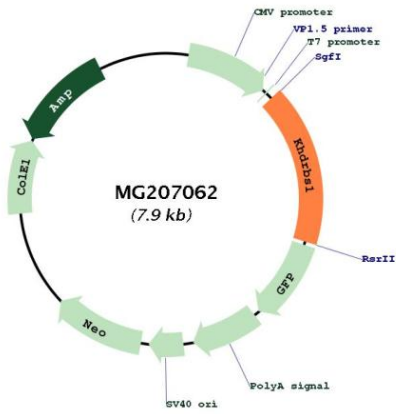
Locus ID: 20218

UniProt ID: [Q60749](#)

Cytogenetics: 4 D2.2

Gene Summary: Recruited and tyrosine phosphorylated by several receptor systems, for example the T-cell, leptin and insulin receptors. Once phosphorylated, functions as an adapter protein in signal transduction cascades by binding to SH2 and SH3 domain-containing proteins. Role in G2-M progression in the cell cycle. Represses CBP-dependent transcriptional activation apparently by competing with other nuclear factors for binding to CBP. Also acts as a putative regulator of mRNA stability and/or translation rates and mediates mRNA nuclear export. Positively regulates the association of constitutive transport element (CTE)-containing mRNA with large polyribosomes and translation initiation. May not be involved in the nucleocytoplasmic export of unspliced (CTE)-containing RNA species. RNA-binding protein that plays a role in the regulation of alternative splicing and influences mRNA splice site selection and exon inclusion. Binds to RNA containing 5'-[AU]UAA-3' as a bipartite motif spaced by more than 15 nucleotides. Binds poly(A). In cooperation with HNRNPA1 modulates alternative splicing of BCL2L1 by promoting splicing toward isoform Bcl-X(S), and of SMN1 (By similarity). Can regulate CD44 alternative splicing in a Ras pathway-dependent manner. Can regulate alternative splicing of NRXN1 and NRXN3 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. In a neuronal activity-dependent manner cooperates synergistically with KHDRBS2/SLIM-1 in regulation of NRXN1 exon skipping at AS4. The cooperation with KHDRBS2/SLIM-1 is antagonistic for regulation of NXRN3 alternative splicing at AS4 (PubMed:12478298, PubMed:22196734, PubMed:24469635).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG207062