

## Product datasheet for **RG205428**

### **KHDRBS2 (NM\_152688) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** KHDRBS2 (NM\_152688) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** KHDRBS2  
**Synonyms:** SLM-1; SLM1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG205428 representing NM\_152688  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAAGAGGAGAAATATTTGCCTGAGCTGATGGCAGAGAAAGATAGCCTGGATCCATCTTTTGTGCATG  
 CGTCGCGCCTTTTGGCAGAAGAAATTGAAAAGTTTCAAGTTCTGATGGAAAAAGGAAGACGAAGAAAA  
 GAAGTATCTTGATGTCATCAGCAACAAAAACATAAAGCTCTCAGAAAGAGTACTGATTCTGTCAAGCAG  
 TATCCAAAGTTCAATTTGTGGGAAATGCTTGGACCAAGGAACTCCTTGAAGAGGCTACAGGAAG  
 AAACAGGTGCTAAAATGTCTATCCTGGCAAGGATCAATGAGAGATAAAGCTAAGGAAGAAGAACTAAG  
 GAAGAGTGGGGAAGCCAAATATGCCCACTTGAGTGATGAGCTTCATGTATTAATTGAAGTGTTCCTCCA  
 CCTGGGGAAGCTTATTCAGTATGAGTCATGCATTGGAAGAGATTAATAAATTCCTGGTTCTGACTACA  
 ATGATGAAATTCGTCAGGAACAACACTACGTGAATTATCTTAAATGGCTCAGAGGACTCTGGTCGTGG  
 CAGAGGTATTAGAGGCAGAGGGATCAGAATAGCTCCACAGCTCCTTCAAGGGCCGTGGGGGTGCCATT  
 CCTCTCCCCACCACCTGGACGAGGTGTTCTACCCCTCGGGGAAGCACTGTAACCCGTGGAGCGCTTC  
 CAGTGCCACCTGTAGCAAGAGGTGTCCTACCCCTCGAGCCCGGGGGCACCACAGTCCAGGATACAG  
 GGCACCTCCTCCTCAGCCATGAAGCTTATGAAGAATATGGTTATGATGATGGCTACGGGGTGAATAT  
 GATGACCAGACCTATGAGACTTATGATAACAGCTACGCGACCCAAACAAAGTGTGCCTGAATACTATG  
 ACTACGGTCATGGAGTAAGTGAAGGATGCCTATGACAGCTACGCACCAGAAGAATGGGCCACAACCAGCTC  
 TAGCTTGAAGGCACCACCCAAAGGTCAGCCAGAGGGGATACAGGGAACACCCCTATGGTAGATAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG205428 representing NM\_152688  
Red=Cloning site Green=Tags(s)

MEEEKYLPPELMAEKDSLDPFVHASRLLAEEIEKFQSGDGKKEDEEKYLDVISNKNIKLSERVLIPVKQ  
 YPKFNFBVGLLGPGRNSLKRLQEETGAKMSILGKGSMDKAKEEELRKSGEAKYAHLSDELHVLIEVFAP  
 PGEAYSRMSHALEEIKKFLVPDYNDIEIRQEQLRELSYLNSEDSGRGRGIRGRGIRIAPTAPSRGRGGAI  
 PPPPPGRGVLTPRGSTVTRGALPVPPVARGVTPRARGAPTVPGYRAPPPPAHEAYEEYGYDDGYGGEY  
 DDQTYETYDNSYATQTQSVPEYDYGHGVSedaydsyapeewattssslkappqrsarggyrehygry

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_152688

**ORF Size:** 1047 bp

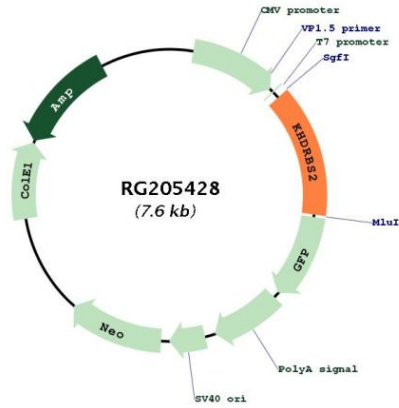
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<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>RefSeq:</b>	<u><a href="#">NM_152688.1</a></u> , <u><a href="#">NP_689901.1</a></u>
<b>RefSeq Size:</b>	2366 bp
<b>RefSeq ORF:</b>	1050 bp
<b>Locus ID:</b>	202559
<b>UniProt ID:</b>	<u><a href="#">Q5VWX1</a></u>
<b>Cytogenetics:</b>	6q11.1
<b>Domains:</b>	KH
<b>Gene Summary:</b>	RNA-binding protein that plays a role in the regulation of alternative splicing and influences mRNA splice site selection and exon inclusion. Binds both poly(A) and poly(U) homopolymers. Phosphorylation by PTK6 inhibits its RNA-binding ability (By similarity). Induces an increased concentration-dependent incorporation of exon in CD44 pre-mRNA by direct binding to purine-rich exonic enhancer. Can regulate alternative splicing of NRXN1 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. Regulates cell-type specific alternative splicing of NRXN1 at AS4 and acts synergistically with SAM68 in exon skipping. In contrast acts antagonistically with SAM68 in NRXN3 exon skipping at AS4. Its phosphorylation by FYN inhibits its ability to regulate splice site selection. May function as an adapter protein for Src kinases during mitosis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG205428