

## Product datasheet for **RG209824**

### **KHDRBS3 (NM\_006558) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** KHDRBS3 (NM\_006558) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** KHDRBS3  
**Synonyms:** Etle; etoile; SALP; SLM-2; SLM2; T-STAR; TSTAR  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG209824 representing NM\_006558  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGGAGAAGTACCTGCCGGAGCTGATGGCGGAGAAGGACTCCCTGGACCCCTCCTTCACGCACGCC  
 TGCCTGGTGAACCAAGAAATAGAAAAGTTTCAAAAAGGAGAAGGCAAGGAAGAAAAGTACATCGATGT  
 GGTGATTAATAAGAACATGAAGCTGGGACAGAAAGTGTTAATCCCGTAAACAGTTCCTAAGTCAAC  
 TTTGTGGGAAACTTTTGGTCCACGTGGCAATCTCTGAAGCGTTTACAAGAAGAACTTGACAAAA  
 TGTCATCCTTGGAAAGTTCCATGAGAGACAAGGCCAAGGAAGAAGAGTTGAGGAAAAGTGGAGAAGC  
 GAAGTACTTCCATCTCAATGATGATCTCCATGTTCTCATTGAAGTGGTGGCCCACTGCAGAAGCTTAT  
 GCCAGGATGGGACATGCTTTGGAAGAAATCAAAAAGTTCCCTCATCCCTGATTATAATGATGAGATCAGGC  
 AAGCACAGCTCCAGGAGTTAACATATTTGAATGGTGGTTCAGAAAATGCAGATGTTCCAGTGGTTCGAGG  
 GAAACCCACCTTGCCTACAAGAGGTGTACCAGCCCAAGCAATAACCAGGGGAAGGGGAGGAGTTACAGCC  
 CGGCCAGTTGGAGTTGTAGTACCAGGGGACGCCAACTCCAGAGGAGTCTGTCCACCCGAGGGCCAG  
 TGAGTCGGGGAAGAGGACTTCTCACTCCAGAGCAAGAGGAGTCCCCCAACTGGGTACAGACCTCCACC  
 GCCACCCCGACACAAGAGACTTATGGAGAATATGACTATGATGATGGATATGGCACTGCTTATGATGAA  
 CAGAGTTATGATTCTATGATAACAGCTATAGCACCCAGCCAAAGTGGTGTGATTACTATGATTACG  
 GACATGGACTCAGTGAGGAGACTTATGATTCTACGGGCAAGAAGAGTGGACTAACTCAAGACACAAGGC  
 ACCTTCAGCGAGGACAGCAAAGGGCGTCTACAGAGACCAGCCATATGGCAGATAC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG209824 representing NM\_006558  
 Red=Cloning site Green=Tags(s)

MEEKYLPELMAEKDSLDPSTHALRLVNQIEIKFQKGEKKEEKYIDVVINKNMKLGQKVLIPVKQFPKFN  
 FVGKLLGPRGNSLKRLQEETLTKMSILGKSMRDKAKEEELRKSGEAKYFHLNDDLHVLIEVFAPPAEAY  
 ARMGHALEEIKKFLIPDYNDIIRQAQLQELTYLNGGSENADVPVVRGKPTLRTRGVPAPAI TRRGGVTA  
 RPVGVVVPRGTPTPRGVLS TRGPVSRGRLLTPRARGVPPTGYRPPPPPTQETYGEYDYDDGYGTAYDE  
 QSYDSYDNSYSTPAQSGADYYDYGHLSEETYDSYGQEEWTNSRHKAPSARTAKGVYRDQPYGRY

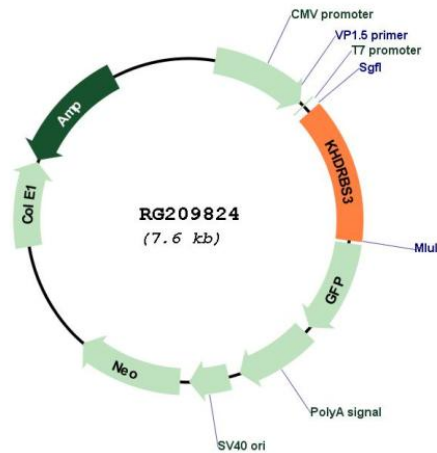
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_006558

**ORF Size:** 1038 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>RefSeq:</b>	<a href="#">NM_006558.1</a> , <a href="#">NP_006549.1</a>
<b>RefSeq Size:</b>	1963 bp
<b>RefSeq ORF:</b>	1041 bp
<b>Locus ID:</b>	10656
<b>UniProt ID:</b>	<a href="#">O75525</a>
<b>Cytogenetics:</b>	8q24.23
<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 preferentially to the 5'-[AU]UAAA-3' motif in vitro. Binds optimally to RNA containing 5'-[AU]UAA-3' as a bipartite motif spaced by more than 15 nucleotides. Binds poly(A). RNA-binding abilities are down-regulated by tyrosine kinase PTK6 (PubMed:10564820, PubMed:19561594, PubMed:26758068). Involved in splice site selection of vascular endothelial growth factor (PubMed:15901763). 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 (PubMed:26758068). Targeted, cell-type specific splicing regulation of NRXN1 at AS4 is involved in neuronal glutamatergic synapse function and plasticity (By similarity). May regulate expression of KHDRBS2/SLIM-1 in defined brain neuron populations by modifying its alternative splicing (By similarity). Can bind FABP9 mRNA (By similarity). May play a role as a negative regulator of cell growth. Inhibits cell proliferation.[UniProtKB/Swiss-Prot Function]