

## Product datasheet for **MR225412**

### Trabd2b (NM\_001085549) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Trabd2b (NM_001085549) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trabd2b
Synonyms:	Gm12824; Hkat; OTTMUSG00000008561
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR225412 representing NM\_001085549  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCACGCCGCCCTGGCGGGCCGCTGCTAGCCGCCCTCCTTGCCACGCCCGCCGCGCCGTCGCCAACCC  
 CCGACGGAGGACAGTGCCGGCCGCTGGATCGCAGAGGGACCTGAACTCCTTCTGTGGACTATTCGGCG  
 CCATCCTCCAGCCTACTTGTGGCACCATCCAGTTCCTATACCCGAGTCTGGGACTTCATCCCTGAT  
 AATTCCAAAGCAGCCTTCCAGGCCAGCACTCACGTCTACTTTGAGTTGGATCTGACAGATCCCTATACCA  
 TCTCAGCCCTGGCCAGTTGCCAGCTGCTGCCCCATGGGGAGAACCCTGCAGGACGTGCTGCCAAGGGAGCT  
 CACTGGCGCCTGAAGCGCCACCTGGACTATGTGAAGCTGATGATCCCCTCCTGGATGACGCCAGCACAG  
 CGCGGCAAGGGGCTGTATGCTGACTACCTGTTCAATGCCATTGCTGGTAACTGGGAGCGCAAGAGGCCCG  
 TGTGGGTGATGCTCATGGTGAACCTCCCTCACGGAGACAGATGTGCGCTCCCGAGGTGTGCCTGTGCTGGA  
 CCTCTACTGGCCAGCAGGCTGAGAAGATGAAGAAGAGCACAGGGGCTGTGGAGCGGGTTGAGGAGCAG  
 TGCCATCCTCTCAATGGGCTCAACTTCTCCAGGTGTTGTTGGCCCTGAACCAGACTCTGCTGCAGCAGG  
 AAAGTGTGCGGGCTGGGAGCCTGCAGGCACCTACACCACAGAGGACCTCATCAAACTACAACCTGCGG  
 GGACCTCAATGCTGTATCTTCAACCATGACACATCCCAGCTACCCAACCTTCATCAACACCACCTCCCA  
 CCTCATGAGCAGGTGACAGCCCAGGAAATCGACAGCTACTTCCGGCAGGAGCTCATCTACAAGAGGAATG  
 AGCGCATGGGAAAGAGGGTATGGCGCTGCTGCAGGAAAACCAGGACAAGATCTGCTTCTTTGCCTTCGG  
 AGCAGGTCACTTCTGGGGAACAACACTGTCATCGATGTCCTAAGACAGGCAGGGCTGGAGGTGGACCAC  
 ACACCTGCTGGCAAGCCATCCACGGTCTGCTGCTGTTGGAAGCCAGCTCCCCCTCCTGAGATCACT  
 CTCTGCCAGCCAGCTCCAGCAACCCAGCCGCTGCAGTCCAGAAGCAACCTCAGCAGCCACCACCCAC  
 CCCTCCTGAGGAGGAAGACCCAGTCTGTCCACACCTCTTGCTCCCGACAGCCTAAGCCAGCTAGAG  
 GAGTTCGGAAGGCAAGTGGCGAAAGAGACTAAATAAACATCAGCGGCCAAGGCAGTTCATGACCTCT  
 GGGTCCGAATCGAGGACAGCACTACGATCTCGCCACCTCCGCTGCCCTGCAGCCTACCCCCAGCTCCGA  
 AACCCAAAGCCCTTTGTCAAGTCTCACACCACTCCAGCAGCAGGACGCTGTGGGGCCTACCAGCAGC  
 TCAGCGCTACTGGGCTCCTCCATGCCATCACTGCCTCCATTGTAGCCCCCTTCTACTACACAGCC  
 TTGGGCTTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR225412 representing NM\_001085549  
 Red=Cloning site Green=Tags(s)

MHAALAGPLLAALLATARARPPDGGQCRPPGSQRDLNSFLWTIRRHPAYLFGTIHVPYTRVWDFIPD  
 NSKAAFQASTHVYFELDLTPYTIASALASCQLLPHGENLQDVLPRELYWRLKRHLDYVKLMIPSWMTPAQ  
 RGKGLYADYLFNAIAGNWERKRPVWMLMVNSLTETDVRSRGVPVLDLYLAQQAEMKKSTGAVERVEEQ  
 CHPLNGLNFSQVLFALNQTLQHESVRAGSLQAPYTTEDLIKHYNCGLNAVIFNHDTSQLPNFINTTLP  
 PHEQVTAQEIDSYFRQELIYKRNERMGRVMALLQENQDKICFFAFGAGHFLGNNTVIDVLRQAGLEVDP  
 TPAGQAIHGPAAVGSPAPPEITSPASPAPATPAAAVPEATSATPTTPPEEDPVLSPHLLLPSLSQLE  
 EFGGRQWRKRLNKHQRPRQFNDLWVRIEDSTTISPPPLPLQPTPSETTKPFVKSSHQLQQQDAVGPTSS  
 SAPTLGLLHAITASIVAPFLLHSLGPS

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9046\\_g10.zip](https://cdn.origene.com/chromatograms/mm9046_g10.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001085549

**ORF Size:** 1551 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\\_001085549.1](#), [NP\\_001079018.1](#)

**RefSeq Size:** 6617 bp

**RefSeq ORF:** 1554 bp

**Locus ID:** 666048

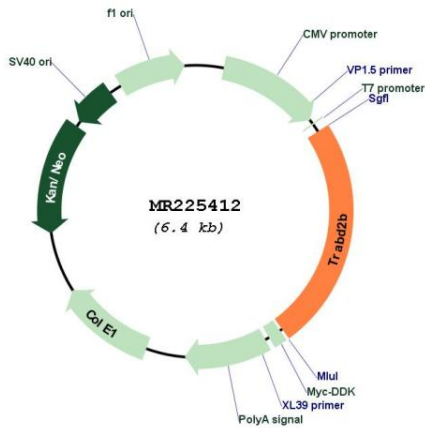
**UniProt ID:** [B1ATG9](#)

**Cytogenetics:** 4

**MW:** 57.8 kDa

**Gene Summary:** Metalloprotease that acts as a negative regulator of the Wnt signaling pathway by mediating the cleavage of the 8 N-terminal residues of a subset of Wnt proteins. Following cleavage, Wnt proteins become oxidized and form large disulfide-bond oligomers, leading to their inactivation. Able to cleave WNT3A, WNT5, but not WNT11. Required for head formation (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR225412