

## Product datasheet for **MR206438**

### Tead2 (BC050217) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tead2 (BC050217) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tead2
Synonyms:	ETF, TEF4, TEAD-2, TEF-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206438 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGGATCCCCGGACTGGGGCCCCCTGGATGATGGCGGGGGCTGGACAGGTAGCGAGGAAGGCAGCG  
AAGAGGGCACCGGAGGCAGCGAGGGCGTTGGAGGTGATGGCAGCCCTGATGCAGAAGCCGGAACGAACT  
CATTGCCCGTTACATCAAGCTGAGGACAGGGAAGACGAGAACCGCAAAGCAGGTCTCCAGCCATATTCAG  
GTTTTGGCTCGAAGGAAATCGAGAGAAATTCAGTCCAAGCTGAAGGACCAAGTCTCCAAGGACAAGGCC  
TCCAGACGATGGCCACCATGTCTTCGGCACAGCTCATCTCGCCCTTCCCTCCAGGCCAAGCTGGGCC  
TTCTGGCCCTCAGGCCACTGAGCTTTTCCAGTTCTGGTCAGGGAGCTCTGGGCCACCATGGAATGTTCCA  
GACGTGAAGCCCTTCTCACAGGCACCGTTCTCCGTGTCAGTACGACCCCCAGCCTCTGACCTACCAGGGT  
ACGAGCCGCCCCAGCCCTCTCACCCCTGCCCCACCCGCTCCGTCTCCCCAGCCTGGCAGGCTCGGGC  
CCTGGGCACTGCCCGCTGCAGCTGATAGAGTTCTCAGCGTTTGTGGAACCGCCAGACGCAGTTGACTCG  
TTCCAGAGGCATCTGTTGTCCACATCAGTCAGCAGTGTCCAGCCCTGGAGCACCACCCCTAGAGAGTG  
TGGACGTGCGGCAGATCTACGACAAATCCCTGAGAAGAAGGGCGGCCTCCGCGAGCTGTATGACCGAGG  
GCCACCACATGCCTTCTTCCTCGTCAAGTTCTGGGCGGACCTGAAGTGGGCCCCAGTCCGAGGAGGCA  
GGGAGCAGCGGAGGTGGCGGTGGCTTCTATGGAGTGAGCAGCAGTATGAGAGCCGGGAGTCAATGACAC  
TCACCTGCTCCTCAAGTCTGCTCCTTTGGCAAGCAAGTGGTAGAGAAGGTGGAGACGGAACGGGCCCA  
GCTGGAGGACGGGCGCTTTGTGTACCGTCTGCTGCGCTCTCCCATGTGTGAGTACCTGGTTAATTTCTG  
CACAAGCTCCGTGAGCTGCCTGAACGCTACATGATGAACAGTGTCTGGAGAAGTTCACCATCCTCCAGG  
TTGTGACAAACAGGGACACTCAGGAACTGCTGCTGTGTAAGTCTCCACCAAGTGA  
ACGAGGAGCCAGTACCACATCTACCGCTGGTCAGGGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206438 protein sequence  
Red=Cloning site Green=Tags(s)

MGDPRTGAPLDDGGGWTGSEEGSEEGTGGSEGVGGDGPDAEGRNELIARYIKLRTGKTRTRKQVSSHIO  
 VLARRKSREIQSKLKDQVSKDKAFQTMATMSSAQLISAPSLQAKLGPSPQATELQFQWSGSSGPPWNP  
 DVKPFSSQAPFSVSLTPPASDLPGYEPPALSPPPPAPSPPAWQARALGTARLQLIEFSAFVEPPDAVDS  
 FQRHLFVHISQQCPSPGAPPLESVDRQIYDKFPEKKGGLREL YDRGPPHAFLLVKFWADLNWGPSAEEA  
 GSSGGGGGFYGVSSQYESREMLTLTCSSKVCSEFGKQVVEK VETERAQLEDGRFVYRLLRSPMCEYLVNFL  
 HKLRQLPERYMMNSVLENFTILQVVTNRDTQELLLCTAYVFEVSTSERGAQYHIYRLVRD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** BC050217

**ORF Size:** 1230 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:** [BC050217](#), [AAH50217](#)

**RefSeq Size:** 1951 bp

**RefSeq ORF:** 1232 bp

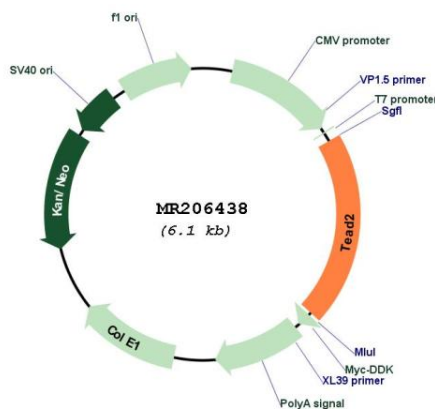
**Locus ID:** 21677

**Cytogenetics:** 7 29.19 cM

**MW:** 45.1 kDa

**Gene Summary:** Transcription factor which plays a key role in the Hippo signaling pathway, a pathway involved in organ size control and tumor suppression by restricting proliferation and promoting apoptosis. The core of this pathway is composed of a kinase cascade wherein MST1/MST2, in complex with its regulatory protein SAV1, phosphorylates and activates LATS1/2 in complex with its regulatory protein MOB1, which in turn phosphorylates and inactivates YAP1 oncoprotein and WWTR1/TAZ. Acts by mediating gene expression of YAP1 and WWTR1/TAZ, thereby regulating cell proliferation, migration and epithelial mesenchymal transition (EMT) induction (By similarity). Binds to the SPH and GT-IIC 'enhancers' (5'-GTGGAATGT-3'). May be involved in the gene regulation of neural development. Binds to the M-CAT motif.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR206438