

Product datasheet for **MR229948**

Tead2 (NM_001285498) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tead2 (NM_001285498) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tead2
Synonyms:	Etdf; ETF; TEAD-2; TEF-4; TEF4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR229948 representing NM_001285498
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGGATCCCCGACTGGGGCCCCCTGGATGATGGCGGGGGTGGACAGGTAGCGAGGAAGGCAGCG
 AAGAGGGCACCGAGGCAGCGAGGGCGTTGGAGGTGATGGCAGCCCTGATGCAGAAGGTGTGGAGCCC
 CGACATTGAGCAGAGTTTTCAAGGAGCCCTGGCCATCTACCCTCCTGTGGCCGTCGCAAGATCATCCTG
 TCAGATGAGGGCAAGATGTATGGCCGGAACGAACCTATTGCCGTTACATCAAGCTGAGGACAGGGAAGA
 CGAGAACGCGAAAGCAGGTCTCCAGCCATATTCAGGTTTTGGCTCGAAGGAAATCGAGAGAAATTCAGTC
 CAAGCTGAAGGACCAAGTCTCCAAGGACAAGGCCCTCCAGACGATGGCCACCATGTCTTCGGCACAGCTC
 ATCTCCGCCCTTCCCTCCAGGCCAAGCTGGGCCCTTCTGGCCCTCAGGCCACTGAGCTTTCCAGTTCT
 GGTGAGGGAGCTCTGGGCCACCATGGAATGTTCCAGACGTGAAGCCCTTCTCACAGGCACCGTTCTCCGT
 GTCAGTACGCCCCCAGCCTCTGACCTACCAGGGTACGAGCCGCCCCAGCCCTCTACCCCTGCCCCCA
 CCCGCTCCGTCTCCCCAGCCTGGCAGGCTCGGGCCCTGGGCACTGCCCGCTGCAGCTGATAGAGTTCT
 CAGCGTTTGTGGAACCGCCAGACGCAGTTGACTCGTTCAGAGGCATCTGTTTGTCCACATCAGTCAGCA
 GTGTCCCAGCCCTGGAGCACCACCCTAGAGAGTGTGGACGTGCGGCAGATCTACGACAAATTCCTGAG
 AAGAAGGGCGGCCTCCGCGAGCTGTATGACCGAGGGCCACCACATGCCTTCTTCTCGTCAAGTTCTGGG
 CGGACCTGAAGTGGGGCCCCAGTCCGAGGAGGCGAGGAGCAGCGGAGGTGGCGGTGGCTTCTATGGAGT
 GAGCAGCCAGTATGAGAGCCGGGAGTCTGACACTCACCTGCTCCTCCAAGGTCTGCTCCTTTGGCAAG
 CAAGTGGTAGAGAAGGTGGAGACGGAACGGGCCAGCTGGAGGACGGGCGCTTTGTGTACCGTCTGCTGC
 GCTCTCCATGTGTGAGTACCTGGTTAATTTCTGCACAAGCTCCGTGAGTGCCTGAACGCTACATGAT
 GAACAGTGTCTGGAGAAGTTCACCATCTCCAGGTTGTGACAAACAGGGACACTCAGGAAGTCTGCTGCTG
 TGTACTGCCTACGTCTTTGAAGTCTCCACCAGTGAACGAGGAGCCAGTACCACATCTACCGCTGGTCA
 GGGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR229948 representing NM_001285498
 Red=Cloning site Green=Tags(s)

MGDPRTGAPLDDGGGWTGSEEGSEEGTGGSEGVGGDGPDAEGVWSPDIEQSFQEALAIYPPCGRRKII
 SDEGKMYGRNELIARYIKLRTGKTRTRKQVSSHIQVLARRKSREIQSKLKDQVSKDAFQTMATMSSAQL
 ISAPSLQAKLGPSPQATELQFWSGSSGPPWNPVDPKPFQAPFVSVLTPPASDLPGYEPPPALSP
 PAPSPPAWQARALGTARLQLIEFSAFVEPPDAVDSFQRHLFVHISQQCPSPGAPPLESVDVVRQIYDKFPE
 KKGGLREL YDRGPPHAFLLVKFWADLNWGP SAE EAGSSGGGGFYGVSSQYERELMTLTCSSKVC SF GK
 QVVEKVETERAQLLEDGRFVYRLLRSPMCEYL VNFLHKL RQLPERYMMNSVLENFTILQVVTNRDTQELL
 CTAYVFEVSTSERGAQYHIYRLVRD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001285498

ORF Size: 1335 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_001285498.2](#)

RefSeq Size: 2157 bp

RefSeq ORF: 1338 bp

Locus ID: 21677

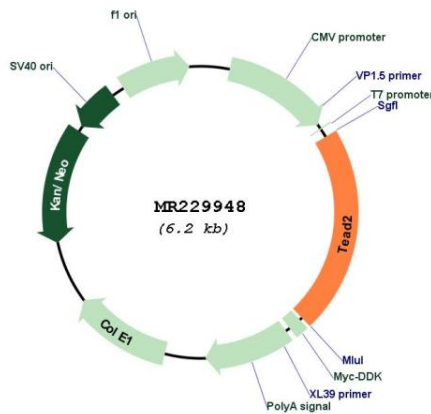
UniProt ID: [P48301](#)

Cytogenetics: 7 29.19 cM

MW: 49 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 'enhansons' (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 MR229948