

## Product datasheet for **MG223302**

### Tead2 (NM\_011565) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tead2 (NM_011565) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tead2
Synonyms:	Etdf; ETF; TEAD-2; TEF-4; TEF4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG223302 representing NM\_011565  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGGATCCCCGACTGGGGCCCCCTGGATGATGGCGGGGGTGGACAGGTAGCGAGGAAGGCAGCG  
 AAGAGGGCACCGAGGCAGCGAGGGCGTTGGAGGTGATGGCAGCCCTGATGCAGAAGGTGTGTGGAGCCC  
 CGACATTGAGCAGAGTTTTCAAGGAGCCCTGGCCATCTACCCTCCTGTGGCCGTCGCAAGATCATCCTG  
 TCAGATGAGGGCAAGATGTATGGCCGGAACGAACCTATTGCCGTTACATCAAGCTGAGGACAGGGAAGA  
 CGAGAACGCGAAAGCAGGTCTCCAGCCATATTCAGGTTTTGGCTCGAAGGAAATCGAGAGAAATTCAGTC  
 CAAGCTGAAGGACCAAGTCTCCAAGGACAAGGCCCTCCAGACGATGGCCACCATGTCTTCGGCACAGCTC  
 ATCTCCGCCCTTCCCTCCAGGCCAAGCTGGGCCCTTCTGGCCCTCAGGCCACTGAGCTTTCCAGTTCT  
 GGTGAGGGAGCTCTGGCCACCATGGAATGTTCCAGACGTGAAGCCCTTCTCACAGGCACCGTTCTCCGT  
 GTCAGTACGCCCCCAGCCTCTGACCTACCAGGTCAGAGCCGCCCCAGCCCTCTACCCCTGCCCCCA  
 CCCGCTCCGTCTCCCCAGCCTGGCAGGCTCGGGCCCTGGGCACTGCCCGCTGCAGCTGATAGAGTTCT  
 CAGCGTTTGTGGAACCGCCAGACGCAGTTGACTCGTTCAGAGGCATCTGTTTGTCCACATCAGTCAGCA  
 GTGTCCCAGCCCTGGAGCACCACCCTAGAGAGTGTGGACGTGCGGCAGATCTACGACAAATCCCTGAG  
 AAGAAGGGCGGCCTCCGCGAGCTGTATGACCGAGGGCCACCACATGCCTTCTTCCGTCAGATTCTGGG  
 CGGACCTGAAGTGGGGCCCCAGTCCCGAGGAGGAGGAGCAGCGGAGGTGGCGGTGGCTTCTATGGAGT  
 GAGCAGCCAGTATGAGAGCCGGGAGTCTGACACTCACCTGCTCCTCCAAGGTCTGCTCCTTTGGCAAG  
 CAAGTGGTAGAGAAGGTGGAGACGGAACGGGCCAGCTGGAGGACGGGCGCTTTGTGTACCGTCTGCTGC  
 GCTCTCCATGTGTGAGTACCTGGTTAATTTCTGCACAAGCTCCGTGAGCTGCCTGAACGCTACATGAT  
 GAACAGTGTCTGGAGAACTTACCATCCTCCAGTTGTGACAAACAGGGACACTCAGGAAGTGTGCTG  
 TGTACTGCCTACGTCTTTGAAGTCTCCACCAGTGAACGAGGAGCCAGTACCACATCTACCGCTGGTCA  
 GGGAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG223302 representing NM\_011565  
 Red=Cloning site Green=Tags(s)

MGDPRTGAPLDDGGGWTGSEEGSEEGTGGSEGVGGDGPDAEGVWSPDIEQSFQEALAIYPPCGRRKIIL  
 SDEGKMYGRNELIARYIKLRTGKTRTRKQVSSHQVLARRKSREIQSKLKDQVSKDKAFQTMATMSSAQL  
 ISAPSLQAKLGPSPQATELQFWWSGSSGPPWNVPDVKPFQAPFSVSLTPPASDLPGYEPPPALSPLPP  
 PAPSPPAWQARALGTARLQLIEFSAFVEPPDAVDSFQRHLFVHISQQCPSPGAPPLESVDVVRQIYDKFPE  
 KKGGLRELYDRGPPHAFFLVKFWADLNWGPSAEEAGSSGGGGFYGVSSQYESRELMTLTCSKVCFSFGK  
 QVVEKVETERAQLEDGRFVYRLLRSPMCEYLVNFLHKLRLQLPERYMMNSVLENFTILQVVTNRDTEQLLL  
 CTAYVFEVSTSERGAQYHIYRLVRD

**TRTRPLE** - GFP Tag - V

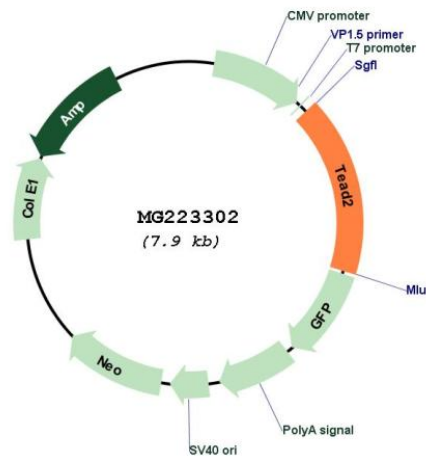
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_011565

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.

<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_011565.3</a>
<b>RefSeq Size:</b>	2115 bp
<b>RefSeq ORF:</b>	1338 bp
<b>Locus ID:</b>	21677
<b>UniProt ID:</b>	<a href="#">P48301</a>
<b>Cytogenetics:</b>	7 29.19 cM
<b>Gene Summary:</b>	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]