

## Product datasheet for **MG222095**

### Tead1 (NM\_001166584) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tead1 (NM_001166584) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tead1
Synonyms:	2610024B07Rik; B230114H05Rik; Gtrgeo5; mTEF-1; Tcf13; TEAD-1; TEF-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG222095 representing NM_001166584 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAAGGATGAGCGACTCGGCAGATAAGCCGATTGACAACGACCGGAGGGCGTCTGGAGTCTGATA  
TTGAGCAGAGTTCCAGGAGGCCCTGGCTATCTATCCGCCGTGTGGGAGGAGAAAAATCATCTTATCAGA  
CGAAGGCCAAAATGTATGGTAGAAATGAATTGATAGCCAGATACATCAAACCTCAGGACGGAAAGACAAGG  
ACCAGGAAGCAGGTGTCTAGTCATATACAGGTCTTAGCAAGAAAGAAAGTTCGAGAAATTCAGCCGCCA  
TTAAGGTGTCTAGTCACATTCAGGTTCTTGCCAGAAGGAAATCTCGTGATTTTCATTCCAAGCTGAAGGT  
AACAAAGCATGGATCAGACTGCCAAGGACAAGGCCCTGCAGCACATGGCTGCCATGTCATCAGCCAGATC  
GTCTCGGCTACTGCCATCCACAACAAGCTGGGGTGCCTGGGATTCCACGCCCCACCTTCCCGGGGGTTC  
CGGGTTCCTGGCCTGGGATGATACAGACAGGACAGCCAGGATCCTCACAAGACGTCAAGCCCTTTGTGCA  
GCAGGCCATACCCCATCCAGCCAGCAGTCACAGCCCCCATCCAGGGTTTGAGCCTACGTCAGCCCCAGCC  
CCCTCAGTTCCTGCCTGGCAGGGCCGATCCATTGGCACAACCAAGCTTCGCCTGGTGAATTCCTCGCTT  
TCCTTGAACAGCAGAGAGACCCAGACTCGTACAACAAACACCTCTTCGTGCACATCGGGCATGCCAACCA  
TTCTTACAGTGACCCGTTGTCTCGAATCTGTGGACATTCGTGAGATATATGACAAAATTCCTGAAAAGAAA  
GGTGGCTTGAAGGAGCTGTTGGAAAGGGCCCTCAAACGCCCTTCTTCGTCAAATTCGGGCGGACT  
TAAACTGCAATATCCAAGACGACGCCGGGCCTTTATGGTGTGAGCAGTCAGTATGAGAGTTCTGAGAA  
CATGACAGTTACCTGTTCCACCAAGTGTGCTCCTTTGGGAAACAAGTAGTAAAAAAGTAGAGACGGAG  
TATGCGAGGTTTCGAGAATGGTCGATTCGTGTACCGAATAAACCGCTCGCCAATGTGTGAATATATGATCA  
ACTTCATCCACAAGCTCAAACACCTACCAGAGAAATATATGATGAACAGTGTTCCTGGAAAACCTCACCAT  
ATTATTGGTGGTAACAAACAGGGATACACAAGAAACTCTGCTCTGCATGGCCTGTGTATTTGAAGTCTCG  
AATAGCGAACACGGAGCACAGCACCATATCTACAGGCTTGTGAAGGAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG222095 representing NM\_001166584  
 Red=Cloning site Green=Tags(s)

MERMSDSADKPIDNDAEGVWSPDIEQSFQEALAIYPPCGRRKIILSDEGKMYGRNELIARYIKLRTGKTR  
 TRKQVSSHIQVLARKKREIQAAIKVSSHIQVLARRKSRDFHSLKLVTSMDQAKDKALQHMAAMSSAQI  
 VSATAIHNKLGIPRPTFPGGPGFWPGMIQTGQPGSSQDVKPFVQQAYPEIQAQVAVTAPIPGFEPTSAPA  
 PSVPAWQGRSIGTTKLRLEVEFSAFLEQQRDPDSYNKHLFVHIGHANHSYSDPILLESVDIRQIYDKFPEKK  
 GGLKELFGKGPQNAFFLVKFWADLNCNIQDDAGAFYGVSSQYESSNMTVTCSTKVCSFGKQVVEKVETE  
 YARFENGRFVYRINRSPMCEYMINFIHKLKHLPEKYMMSVLENFTILLVVTNRDQTETLLCMACVFEVS  
 NSEHGAQHIIYRLVKD

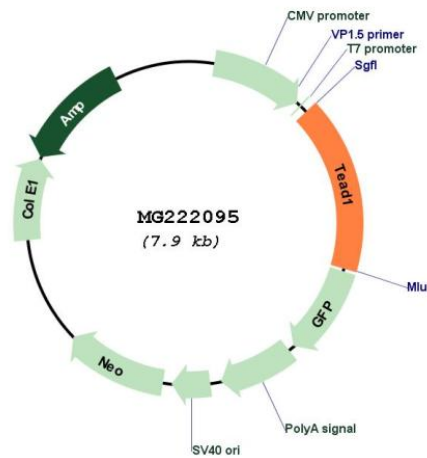
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001166584

<b>ORF Size:</b>	1308 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_001166584.1</a> , <a href="#">NP_001160056.1</a>
<b>RefSeq Size:</b>	9962 bp
<b>RefSeq ORF:</b>	1311 bp
<b>Locus ID:</b>	21676
<b>Cytogenetics:</b>	7 F1
<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. Binds specifically and cooperatively to the SPH and GT-IIC 'enhansons' (5'-GTGGAATGT-3') and activates transcription in vivo in a cell-specific manner. The activation function appears to be mediated by a limiting cell-specific transcriptional intermediary factor (TIF). Involved in cardiac development. Binds to the M-CAT motif (By similarity).[UniProtKB/Swiss-Prot Function]