

Product datasheet for **RG232756**

TEA domain family member 2 (TEAD2) (NM_001256658) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TEA domain family member 2 (TEAD2) (NM_001256658) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TEAD2
Synonyms:	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:

>RG232756 representing NM_001256658
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGGGGAACCCCGGGCTGGGGCCGCCCTGGACGATGGCAGCGGTGGACGGCAGTGAGGAAGGCAGTG
 AGGAGGGTACCGCGGCAGTGAGGGGGCTGGGGGTGACGGGGGCCCGGATGCAGAGGGGGTGGAGCCC
 AGACATTGAGCAGAGCTTCCAGGAGGCCCTGGCCATCTATCCACCCTGCGGCCGCGGAAAAATAATTTTG
 TCTGATGAAGGCAAGATGTATGGTCCGAATGAACTGATCGCCCGTACATCAAGCTGAGAACGGGAAGA
 CCCGAACCGAAAAAGGTTTCTAGTCACATCCAGTTTTGGCCCGAAGGAAATCAAGGAAATCCAGTC
 CAAGTTGAAGGACCAGGTTTCCAAGGACAAGGCTTCCAGACAATGGCAACCATGTCCTCTGCCAGCTC
 ATCTCCGCGCTTCTCTGCAGGCCAACTGGGTCCCACTGGTCCAGGTGGTCCAGGCCTCTGAGCTTT
 TCCAGTTTTGGTCTGGAGGATCTGGGCCCCCTGGAATGTTCCAGATGTGAAGCCATTCTCACAGACACC
 GTTCACCTTGCTACTGACTCCCCATCTACTGACCTCCAGGGTACGAGCCCCCAAGCCCTCTCACCC
 CTGCCCCACCTACCCATCGCCCCAGCTGGCAGGCTCGGGGCTGGGCACCGCCCGTTGCAGCTGG
 TAGAGTCTCAGCCTTCGTGGAACCGCCAGATGCAGTTGATTCTTACCAGAGGCACCTGTTCTGTCACAT
 CAGCCAGCACTGCCCCAGCCCCGGAGCGCCGCCGCTCGAGAGTGTGGACGTCGGCAGATCTACGACAAA
 TTCCCTGAGAAAAAGGTGGCTCCGAGAGCTATATGATCGTGGCCCCCCCCATGCCTTCTCTGGTCA
 AGTTCTGGGGCGGACCTGAACTGGGGCCCAAGTGGTGAGGAGGCAGGGGCCGGTGGCAGCATCAGCAGTGG
 TGGCTTACGGAGTGAGCAGCCAGTATGAGAGCCTGGAACACATGACCCCTCACCTGTTCTCCAAGGTC
 TGCTCTTTGGCAAGCAGGTGGTGGAGAAGGTGGAGACGGAACGGGCCAGCTGGAGGACGGCAGATTTG
 TGTACCGCCTGCTGCGCTCGCCATGTGCGAGTACCTGGTGAATTTCTTGACAAGTTGCGGCAGCTGCC
 TGAGCGATACATGATGAACAGCGTCTGGAAAACCTTACCATCCTCCAGGTGGTGACAAACAGAGACACC
 CAGGAACTGCTGCTCTGCACCGCTATGCTTCGAGGTCTCCACCAGCGAGCGTGGGGCCAGCATCACA
 TTTACCGCTGGTCAGGGAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG232756 representing NM_001256658
 Red=Cloning site Green=Tags(s)

MGEPRAGAALDDGSGWTGSEEGSEEGTGGSEGAGDGGPDAEGVWSPDIEQSFQEALAIYPPCGRRKIIIL
 SDEGKMYGRNELIARYIKLRTGKTRTRKQVSSHQVLARRKSREIQSKLKDQVSKDKAFQTMATMSSAQL
 ISAPSLQAKLGPTGPQVVQASELFQFWSGGSGPPWNPVDPKPFSTPFTLSLTPPSTDLPGYEPPQALSP
 LPPPTSPPAWQARGLGTARLQLVEFSAFVEPPDAVDSYQRHLFVHISQHCPSGAPPLESVDVRQIYDK
 FPEKKGGLREL YDRGPPHAFLLVKFWADLNWGPSGEEAGAGGSISSGGFYGVSSQYESLEHMTLTCSSKV
 CSFGKQVVEKVETERAQLLEDGRFVYRLLRSPMCEYLVNFLHKLRLQLPERYMMNSVLENFTILQVVTNRDT
 QELLLCTAYVFEVSTSERGAQHIIYRLVRD

TRTRPLE – GFP Tag – V

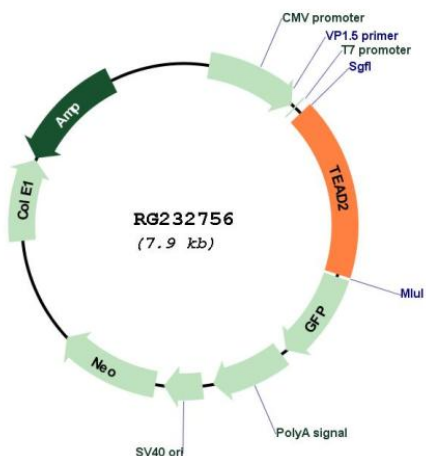
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001256658

ORF Size: 1350 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:	<ol style="list-style-type: none">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_001256658.2
RefSeq Size:	2237 bp
RefSeq ORF:	1353 bp
Locus ID:	8463
UniProt ID:	Q15562
Cytogenetics:	19q13.33
Protein Families:	Transcription Factors
Gene Summary:	<p>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 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.</p> <p>[UniProtKB/Swiss-Prot Function]</p>