

Product datasheet for **RC232756**

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:	Myc-DDK
Symbol:	TEA domain family member 2
Synonyms:	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:

>RC232756 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGGGGAACCCCGGGCTGGGGCCGCCCTGGACGATGGCAGCGGTGGACGGCAGTGAGGAAGGCAGTG
 AGGAGGGTACCGCGGCAGTGAGGGGGCTGGGGGTGACGGGGGCCGGATGCAGAGGGGGTGTGGAGCCC
 AGACATTGAGCAGAGCTTCCAGGAGGCCCTGGCCATCTATCCACCCTGCGGCCGCGGAAAAATAATTTTG
 TCTGATGAAGGCAAGATGTATGGTCCGAATGAACTGATCGCCCGTACATCAAGCTGAGAACGGGAAGA
 CCCGAACCGAAAAACAGGTTTCTAGTCACATCCAGTTTTGGCCCGAAGGAAATCAAGGAAATCCAGTC
 CAAGTTGAAGGACCAGGTTTCCAAGGACAAGGCTTCCAGACAATGGCAACCATGTCCTCTGCCAGCTC
 ATCTCCGCGCTTCTCTGCAGGCCAACTGGGTCCCCTGGTCCAGGTGGTCCAGGCCTCTGAGCTTT
 TCCAGTTTTGGTCTGGAGGATCTGGGCCCCCTGGAATGTTCCAGATGTGAAGCCATTCTCACAGACACC
 GTTCACCTTGCTACTGACTCCCCATCTACTGACCTCCAGGGTACGAGCCCCCAAGCCCTCTACCC
 CTGCCCCACCTACCCATCGCCCCAGCTGGCAGGCTCGGGGCTGGGCACCGCCCGTTGCAGCTGG
 TAGAGTCTCAGCCTTCGTGGAACCGCCAGATGCAGTTGATTCTTACCAGAGGCACCTGTTCTGTGCACAT
 CAGCCAGCACTGCCCCAGCCCCGGAGCGCCGCCGCTCGAGAGTGTGGACGTCGCGCAGATCTACGACAAA
 TTCCCTGAGAAAAAGGTGGCTCCGAGAGCTATATGATCGTGGCCCCCCCCATGCCTTCTTCTGGTCA
 AGTTCTGGGGCGACCTGAACTGGGGCCCAAGTGGTGAGGAGGCAGGGGCCGTGGCAGCATCAGCAGTGG
 TGGCTTACGGAGTGAGCAGCCAGTATGAGAGCTGGAACACATGACCTCACCTGTTCTTCCAAGGTC
 TGCTCTTTGGCAAGCAGGTGGTGGAGAAGTGGAGACGGAACGGGCCAGCTGGAGGAGGCAGATTTG
 TGTACCGCTGCTGCGCTCGCCATGTGCGAGTACCTGGTGAATTTCTTGACAAGTTGCGGCAGCTGCC
 TGAGCGATACATGATGAACAGCGTCTGGAAAACCTTACCATCCTCCAGGTGGTGACAAAACAGAGACACC
 CAGGAACTGCTGCTCTGCACCGCTATGCTTCGAGGTCTCCACCAGCGAGCGTGGGGCCAGCATCACA
 TTTACCGCTGCTCAGGGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC232756 protein sequence
 Red=Cloning site Green=Tags(s)

MGEPRAGAALDDGSGWTGSEEGSEEGTGGSEAGGDDGPD AEGVWSPDIEQSFQEALAIYPPCGRRKIIL
 SDEGKMYGRNELIARYIKLRTGKTRTRKQVSSHQVLARRKSREIQSKLKDQVSKDKAFQTMATMSSAQL
 ISAPSLQAKLGPTGPQVVQASELQFWSGGSGPPWNPVDVKPFSQTPFTLSLTPPSTDLPGYEPPQALSP
 LPPPTSPPAWQARGLTARLQLVEFSAFVEPPDAVDSYQRHLFVHISQHCPSPGAPPLESVDRVQIYDK
 FPEKKGGLRELYDRGPPHAFLLVKFWADLNWGPSGEEAGAGGSISSGGFYGVSSQYESLEHMTLTCSSKV
 CSFGKQVVEKVETERAQLLEDGRFYRLLRSPMCEYLVNFLHKLRLQLPERYMMNSVLENFTILQVVTNRDT
 QELLLCTAYVFEVSTSERGAQHIIYRLVRD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


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:

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](#)

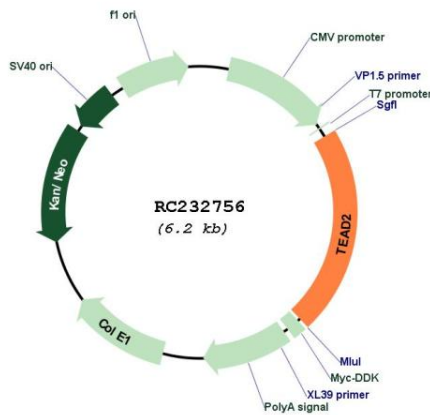
Cytogenetics: 19q13.33

Protein Families: Transcription Factors

MW: 49.6 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. 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 RC232756