

## Product datasheet for **RC232757**

### TEA domain family member 2 (TEAD2) (NM\_001256659) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TEA domain family member 2 (TEAD2) (NM_001256659) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TEAD2
Synonyms:	ETF; TEAD-2; TEF-4; TEF4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC232757 representing NM\_001256659  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGAAACCCCGGGCTGGGGCCGCCCTGGACGATGGCAGCGGCTGGACGGCAGTGAGGAAGGCAGTG  
 AGGAGGGTACCGCGGCAGTGAGGGGGCTGGGGGTGACGGGGGCCCGGATGCAGAGGGGGTGTGGAGCCC  
 AGACATTGAGCAGAGCTTCCAGGAGGCCCTGGCCATCTATCCACCCTGCGGCCGCCGAAAAATAATTTTG  
 TCTGATGAAGGCAAGATGTATGGTCCGAATGAACTGATCGCCCGTACATCAAGCTGAGAACGGGAAGA  
 CCCGAACCGAAAAAGGTTTCTAGTCACATCCAGTTTTGGCCCGAAGGAAATCAAGGAAATCCAGTC  
 CAAGTTGAAGGACCAGGTTTCCAAGGACAAGGCTTCCAGACAATGGCAACCATGTCCTCTGCCAGCTC  
 ATCTCCGCGCCTTCTCTGCAGGCCAACTGGGTCCCACTGGTCCAGGTGGTCCAGGCCTCTGAGCTTT  
 TCCAGTTTTGGTCTGGAGGATCTGGGCCCCCTGGAATGTTCCAGATGTGAAGCCATTCTCACAGACACC  
 GTTCACCTTGCTACTGACTCCCCATCTACTGACCTCCAGGGTACGAGCCCCCAAGCCCTCTCACCC  
 CTGCCCCACCTACCCATCGCCCCAGCTGGCAGGCTCGGGGCTGGGCACCGCCCGGTTGCAGCTGG  
 TAGAGTCTCAGCCTTCGTGGAACCGCCAGATGCAGTTGATTCTTACCAGAGGCACCTGTTCTGTCACAT  
 CAGCCAGCACTGCCCCAGCCCCGGAGCGCCGCCGCTCGAGAGTGTGGACGTCCGGCAGATCTACGACAAA  
 TTCCCTGAGAAAAAGGTTGGCTCCGAGAGCTATATGATCGTGGCCCCCCCCATGCCTTCTTCTGGTCA  
 AGTTCTGGGCGGACCTGAACTGGGGCCCAAGTGGTGAGGAGGCAGGGGCCGGTGGCAGCATCAGCAGTGG  
 TGGCTTACGGAGTGAGCAGCCAGTATGAGAGCCTGGAACACATGACCTCACCTGTTCTTCCAAGGTC  
 TGCTCTTTGGCAAGCAGGTGGTGGAGAAGTGGAGACGGAACGGGCCAGCTGGAGGACGGCAGATTTG  
 TGTACCGCCTGCTGCGCTCGCCATGTGCGAGTACCTGGTGAATTTCTTGACAAGTTGGGCAGCTGCC  
 TGAGCGATACATGATGAACAGCGTCTGGAAAACCTTACCATCCTCCAGGTGGTGACAAAACAGAGACACC  
 CAGGAACTGCTGCTCTGCACCGCTATGCTTCGAGGTCTCCACCAGCGAGCGTGGGGCCAGCATCACA  
 TTTACCGCTGGTCAGGGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC232757 representing NM\_001256659  
 Red=Cloning site Green=Tags(s)

MGEPRAGAALDDGSGWTGSEEGSEEGTGGSEGAGDGGPDAEGVWSPDIEQSFQEALAIYPPCGRRKIIL  
 SDEGKMYGRNELIARYIKLRTGKTRTRKQVSSHIQVLARRKSREIQSKLKDQVSKDKAFQTMATMSSAQL  
 ISAPSLQAKLGPTGPQVVQASELQFWSGGSGPPWNPDKPFSQTPFTLSLTPPSTDLPGYEPPQALSP  
 LPPPTPSPPAWQARGLGTARLQLVEFSAFVEPPDAVDSYQRHLFVHISQHCPSPGAPPLESVDVRQIYDK  
 FPEKKGGLREL YDRGPPHAFLLVKFWADLNWGPSGEEAGAGGSISSGGFYGVSSQYESLEHMTLTCSSKV  
 CSFGKQVVEKVE TERAQLEDGRFVYRLLRSPMCEYL VNFLHKLRLQLPERYMMNSVLENFTILQVVTNRDT  
 QELLLCTAYVFEVSTSERGAQHIIYRLVRD

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

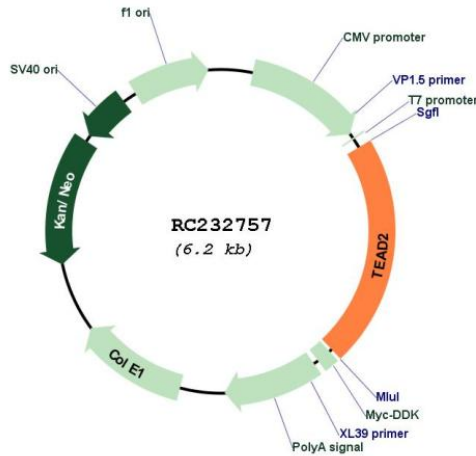
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001256659

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).

<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_001256659.2</a>
<b>RefSeq Size:</b>	2193 bp
<b>RefSeq ORF:</b>	1353 bp
<b>Locus ID:</b>	8463
<b>UniProt ID:</b>	<a href="#">Q15562</a>
<b>Cytogenetics:</b>	19q13.33
<b>Protein Families:</b>	Transcription Factors
<b>MW:</b>	50 kDa
<b>Gene Summary:</b>	<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>