OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG203526

TEA domain family member 2 (TEAD2) (NM_003598) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TEA domain family member 2 (TEAD2) (NM_003598) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TEA domain family member 2
Synonyms:	ETF; TEAD-2; TEF-4; TEF4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG203526 representing NM_003598
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGGAACCCCGGGCTGGGGCCGCCCTGGACGATGGCAGCGGCTGGACGGGCAGTGAGGAAGGCAGTG
AGGAGGGTACCGGCGGCAGTGAGGGGGCTGGGGGTGACGGGGGCCCGGATGCAGAGGGGGTGTGGAGCCC
AGACATTGAGCAGAGCTTCCAGGAGGCCCTGGCCATCTATCCACCCTGCGGCCGCCGGAAAATAATTTTG
TCTGATGAAGGCAAGATGTATGGTCGGAATGAACTGATCGCCCGCTACATCAAGCTGAGAACGGGGAAGA
CCCGAACTCGAAAACAGGTTTCTAGTCACATCCAGGTTTTGGCCCGAAGGAAATCAAGGGAAATCCAGTC
CAAGTTGAAGGACCAGGTTTCCAAGGACAAGGCTTTCCAGACAATGGCAACCATGTCCTCTGCCCAGCTC
ATCTCCGCGCCTTCTCTGCAGGCCAAACTGGGTCCCACTGGTCCTCAGGCCTCTGAGCTTTTCCAGTTTT
GGTCTGGAGGATCTGGGCCCCCCTGGAATGTTCCAGATGTGAAGCCATTCTCACAGACACCGTTCACCTT
GTCACTGACTCCCCCATCTACTGACCTCCCAGGGTACGAGCCCCCCCAAGCCCTCTCACCCCTGCCCCCA
CCTACCCCATCGCCCCCAGCCTGGCAGGCTCGGGGCCTGGGCACCGCCCGGTTGCAGCTGGTAGAGTTCT
CAGCCTTCGTGGAACCGCCAGATGCAGTTGATTCTTACCAGAGGCACCTGTTCGTGCACATCAGCCAGCA
CTGCCCCAGCCCCGGAGCGCCGCCGCTCGAGAGTGTGGACGTCCGGCAGATCTACGACAAATTCCCTGAG
AAAAAGGGTGGCCTCCGAGAGCTATATGATCGTGGCCCCCCCCATGCCTTCTTCCTGGTCAAGTTCTGGG
CGGACCTGAACTGGGGCCCAAGTGGTGAGGAGGCAGGGGCCGGTGGCAGCATCAGCAGTGGTGGCTTCTA
CGGAGTGAGCAGCCAGTATGAGAGCCTGGAACACATGACCCTCACCTGTTCCTCCAAGGTCTGCTCTTTT
GGCAAGCAGGTGGTGGAGAAGGTGGAGACGGAACGGGCCCAGCTGGAGGACGGCAGATTTGTGTACCGCC
TGCTGCGCTCGCCCATGTGCGAGTACCTGGTGAATTTCTTGCACAAGTTGCGGCAGCTGCCTGAGCGATA
CATGATGAACAGCGTCCTGGAAAACTTCACCATCCTCCAGGTGGTGACAAACAGAGACACCCAGGAACTG
CTGCTCTGCACCGCCTATGTCTTCGAGGTCTCCACCAGCGAGCGTGGGGCCCAGCATCACATTTACCGCC
TGGTCAGGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG203526 representing NM_003598
Red=Cloning site Green=Tags(s)

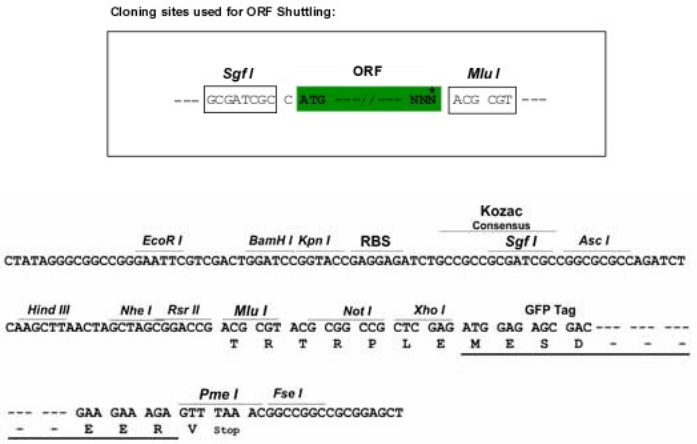
MGEPRAGAALDDGSGWTGSEEGSEEGTGGSEGAGGDGGPDAEGVWSPDIEQSFQEALAIYPPCGRRKIIL
SDEGKMYGRNELIARYIKLRTGKTRTRKQVSSHIQVLARRKSREIQSKLKDQVSKDKAFQTMATMSSAQL
ISAPSLQAKLGPTGPQASELFQFWSGGSGPPWNVPDVKPFSQTPFTLSLTPPSTDLPGYEPPQALSPLPP
PTPSPPAWQARGLGTARLQLVEFSAFVEPPDAVDSYQRHLFVHISQHCPSPGAPPLESVDVRQIYDKFPE
KKGGLRELYDRGPPHAFFLVKFWADLNWGPSGEEAGAGGSISSGGFYGVSSQYESLEHMTLTCSSKVCSF
GKQVVEKVETERAQLEDGRFVYRLLRSPMCEYLVNFLHKLRQLPERYMMNSVLENFTILQVVTNRDTQEL
LLCTAYVFEVSTSERGAQHHIYRLVRD

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2578_a08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003598

ORF Size: 1341 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

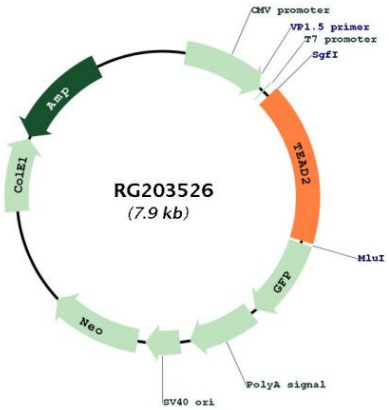
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_003598.2

RefSeq Size:	2220 bp
RefSeq ORF:	1344 bp
Locus ID:	8463
UniProt ID:	Q15562
Cytogenetics:	19q13.33
Protein Families:	Transcription Factors
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 'enhansons' (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 RG203526