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Product datasheet for SC320274

TEA domain family member 2 (TEAD2) (NM_003598) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TEA domain family member 2 (TEAD2) (NM_003598) Human Untagged Clone
Tag:	Tag Free
Symbol:	TEA domain family member 2
Synonyms:	ETF; TEAD-2; TEF-4; TEF4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_003598.1
CCCACTTTTCCCAAACAAAGCTCCCGGCAACTTTCTCCCTCGCAGCGCCCCGCCCGCCCG
CGGCTCCCCAGCCCCAGGCCGGGAGGCCCAGATGGGGGAACCCCGGGCTGGGGCCGCCCT
GGACGATGGCAGCGGCTGGACGGGCAGTGAGGAAGGCAGTGAGGAGGGTACCGGCGGCAG
TGAGGGGGCTGGGGGTGACGGGGGCCCGGATGCAGAGGGGGTGTGGAGCCCAGACATTGA
GCAGAGCTTCCAGGAGGCCCTGGCCATCTATCCACCCTGCGGCCGCCGGAAAATAATTTT
GTCTGATGAAGGCAAGATGTATGGTCGGAATGAACTGATCGCCCGCTACATCAAGCTGAG
AACGGGGAAGACCCGAACTCGAAAACAGGTTTCTAGTCACATCCAGGTTTTGGCCCGAAG
GAAATCAAGGGAAATCCAGTCCAAGTTGAAGGACCAGGTTTCCAAGGACAAGGCTTTCCA
GACAATGGCAACCATGTCCTCTGCCCAGCTCATCTCCGCGCCTTCTCTGCAGGCCAAACT
GGGTCCCACTGGTCCTCAGGCCTCTGAGCTTTTCCAGTTTTGGTCTGGAGGATCTGGGCC
CCCCTGGAATGTTCCAGATGTGAAGCCATTCTCACAGACACCGTTCACCTTGTCACTGAC
TCCCCCATCTACTGACCTCCCAGGGTACGAGCCCCCCCAAGCCCTCTCACCCCTGCCCCC
ACCTACCCCATCGCCCCCAGCCTGGCAGGCTCGGGGCCTGGGCACCGCCCGGTTGCAGCT
GGTAGAGTTCTCAGCCTTCGTGGAACCGCCAGATGCAGTTGATTCTTACCAGAGGCACCT
GTTCGTGCACATCAGCCAGCACTGCCCCAGCCCCGGAGCGCCGCCGCTCGAGAGTGTGGA
CGTCCGGCAGATCTACGACAAATTCCCTGAGAAAAAGGGTGGCCTCCGAGAGCTATATGA
TCGTGGCCCCCCCCATGCCTTCTTCCTGGTCAAGTTCTGGGCGGACCTGAACTGGGGCCC
AAGTGGTGAGGAGGCAGGGGCCGGTGGCAGCATCAGCAGTGGTGGCTTCTACGGAGTGAG
CAGCCAGTATGAGAGCCTGGAACACATGACCCTCACCTGTTCCTCCAAGGTCTGCTCTTT
TGGCAAGCAGGTGGTGGAGAAGGTGGAGACGGAACGGGCCCAGCTGGAGGACGGCAGATT
TGTGTACCGCCTGCTGCGCTCGCCCATGTGCGAGTACCTGGTGAATTTCTTGCACAAGTT
GCGGCAGCTGCCTGAGCGATACATGATGAACAGCGTCCTGGAAAACTTCACCATCCTCCA
GGTGGTGACAAACAGAGACACCCAGGAACTGCTGCTCTGCACCGCCTATGTCTTCGAGGT
CTCCACCAGCGAGCGTGGGGCCCAGCATCACATTTACCGCCTGGTCAGGGACTGAAGGGG
GACCCCAAAACTGGCTCACCCCCCAGAACACCCTCCTCCCAGGGAGGGTCCTCCAGCTCA
CCTCATGCTTCTTATTTGGGGAGAGGGCTGTGATGTAAAGGGGTTGACCTCAGAGGCCTA
AGCAACTGGGGCCATCCCCCCCATTAGAGGGGCCCCCAAAACTTGGTTGGAGAGCTGAAC
AGGCTGGGACTGAGGAAAGGATAAACCCCGATATTGGGACCTCACAGTGGGTGTCTGAAA
GGACAGATCACTCCGGAGTATCAGGGATTGTGGGGACAGGAGTGAGACAACCCCCCAGGT
ACAGCACTGGCTTTTCTTTTCAGCCCCTGACAGGCCACCCCCACTCCTCTGCATGTCTTG
GAGAGCGCTAGTTACACATTGGCTTGTCCCCTTTACTTTTTCCCAGCCACCCCTCCCCCT
GAAATTTCTGCCCCTCTCTACCACCCTCACTCCATGACCTGTGAGATCACAAAGTGAAGA
TGAACCCTTTCTGTGCAGGAGCAGAGCCAGGTGGGCCCTGGACATTTTTTTTTTTTTTAA
TATAACGAGATATTTATAAGTGGGTGCTAGGGTCTTGACTTTATCTCCGCTGCACAAGCA
GTGTGTTGAACTTTCTAATCTCATCCCTCTCCTAAGTGAGCCCTGAGCTAGACGGTTTCC
TTCCTCCCCTCTCAAAGTTTGTTTGTTTGTGTTCTGACAGAGGATAAAGCTATTTTACCA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_003598

Insert Size: 2200 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_003598.1, NP_003589.1
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]
Transcript Variant: This variant (5) differs in the 5' UTR and uses an alternate splice site in the 5' coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (3) is shorter than isoform 1.