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Product datasheet for RG232469

TEA domain family member 2 (TEAD2) (NM_001256662) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TEA domain family member 2 (TEAD2) (NM_001256662) 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)

ORF Nucleotide Sequence:

>RG232469 representing NM_001256662
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAACCATGTCCTCTGCCCAGCTCATCTCCGCGCCTTCTCTGCAGGCCAAACTGGGTCCCACTGGTC
CTCAGGTGGTCCAGGCCTCTGAGCTTTTCCAGTTTTGGTCTGGAGGATCTGGGCCCCCCTGGAATGTTCC
AGATGTGAAGCCATTCTCACAGACACCGTTCACCTTGTCACTGACTCCCCCATCTACTGACCTCCCAGGG
TACGAGCCCCCCCAAGCCCTCTCACCCCTGCCCCCACCTACCCCATCGCCCCCAGCCTGGCAGGCTCGGG
GCCTGGGCACCGCCCGGTTGCAGCTGGTAGAGTTCTCAGCCTTCGTGGAACCGCCAGATGCAGTTGATTC
TTACCAGAGGCACCTGTTCGTGCACATCAGCCAGCACTGCCCCAGCCCCGGAGCGCCGCCGCTCGAGAGT
GTGGACGTCCGGCAGATCTACGACAAATTCCCTGAGAAAAAGGGTGGCCTCCGAGAGCTATATGATCGTG
GCCCCCCCCCATGCCTTCTTCCTGGTCAAGTTCTGGGCGGACCTGAACTGGGGCCCAAGTGGTGAGGAGGC
AGGGGCCGGTGGCAGCATCAGCAGTGGTGGCTTCTACGGAGTGAGCAGCCAGTATGAGAGCCTGGAACAC
ATGACCCTCACCTGTTCCTCCAAGGTCTGCTCTTTTGGCAAGCAGGTGGTGGAGAAGGTGGAGACGGAAC
GGGCCCAGCTGGAGGACGGCAGATTTGTGTACCGCCTGCTGCGCTCGCCCATGTGCGAGTACCTGGTGAA
TTTCTTGCACAAGTTGCGGCAGCTGCCTGAGCGATACATGATGAACAGCGTCCTGGAAAACTTCACCATC
CTCCAGGTGGTGACAAACAGAGACACCCAGGAACTGCTGCTCTGCACCGCCTATGTCTTCGAGGTCTCCA
CCAGCGAGCGTGGGGCCCAGCATCACATTTACCGCCTGGTCAGGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

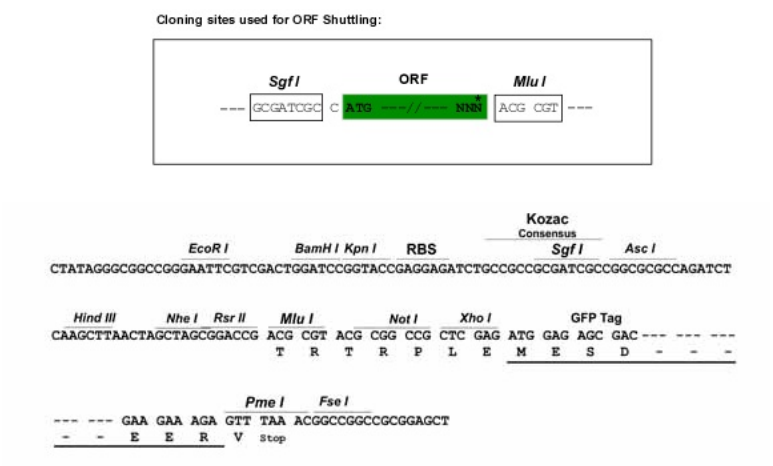
>RG232469 representing NM_001256662
Red=Cloning site Green=Tags(s)

MATMSSAQLISAPSLQAKLGPTGPQVVQASELFQFWSGGSGPPWNVPDVKPFSQTPFTLSLTPPSTDLPG
YEPPQALSPLPPPTPSPPAWQARGLGTARLQLVEFSAFVEPPDAVDSYQRHLFVHISQHCPSPGAPPLES
VDVRQIYDKFPEKKGGLRELYDRGPPHAFFLVKFWADLNWGPSGEEAGAGGSISSGGFYGVSSQYESLEH
MTLTCSSKVCSFGKQVVEKVETERAQLEDGRFVYRLLRSPMCEYLVNFLHKLRQLPERYMMNSVLENFTI
LQVVTNRDTQELLLCTAYVFEVSTSERGAQHHIYRLVRD

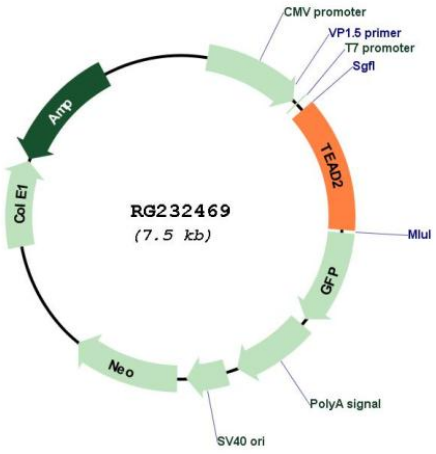
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001256662

ORF Size: 957 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_001256662.2
RefSeq Size:	1967 bp
RefSeq ORF:	960 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]