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 RC219349

TAZ (NM_181312) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAZ (NM_181312) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TAZ
Synonyms:	BTHS; CMD3A; EFE; EFE2; G4.5; LVNCX; TAZ; Taz1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC219349 representing NM_181312
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCTCTGCACGTGAAGTGGCCGTTCCCCGCGGTGCCGCCGCTCACCTGGACCCTGGCCAGCAGCGTCG
TCATGGGCTTGGTGGGCACCTACAGCTGCTTCTGGACCAAGTACATGAACCACCTGACCGTGCACAACAG
GGAGGTGCTGTACGAGCTCATCGAGAAGCGAGGCCCGGCCACGCCCCTCATCACCGTGTCCAATCACCAG
TCCTGCATGGACGACCCTCATCTCTGGGGGATCCTGAAACTCCGCCACATCTGGAACCTGAAGTTGATGC
GTTGGACCCCTGCAGCTGCAGACATCTGCTTCACCAAGGAGCTACACTCCCACTTCTTCAGCTTGGGCAA
GTGTGTGCCTGTGTGCCGAGGAGCAGAATTTTTCCAAGCAGAGAATGAGGGGAAAGGTGTTCTAGACACA
GGCAGGCACATGCCAGGTGCTGGAAAAAGAAGAGAGAAAGGAGATGGCGTCTACCAGAAGGGGATGGACT
TCATTTTGGAGAAGCTCAACCATGGGGACTGGGTGCATATCTTCCCAGAAGGAATCGGGCGCCTGATTGC
TGAGTGTCATCTCAACCCCATCATCCTGCCCCTGTGGCATGTCGGAATGAATGACGTCCTTCCTAACAGT
CCGCCCTACTTCCCCCGCTTTGGACAGAAAATCACTGTGCTGATCGGGAAGCCCTTCAGTGCCCTGCCTG
TACTCGAGCGGCTCCGGGCGGAGAACAAGTCGGCTGTGGAGATGCGGAAAGCCCTGACGGACTTCATTCA
AGAGGAATTCCAGCATCTGAAGACTCAGGCAGAGCAGCTCCACAACCACCTCCAGCCTGGGAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC219349 representing NM_181312
Red=Cloning site Green=Tags(s)

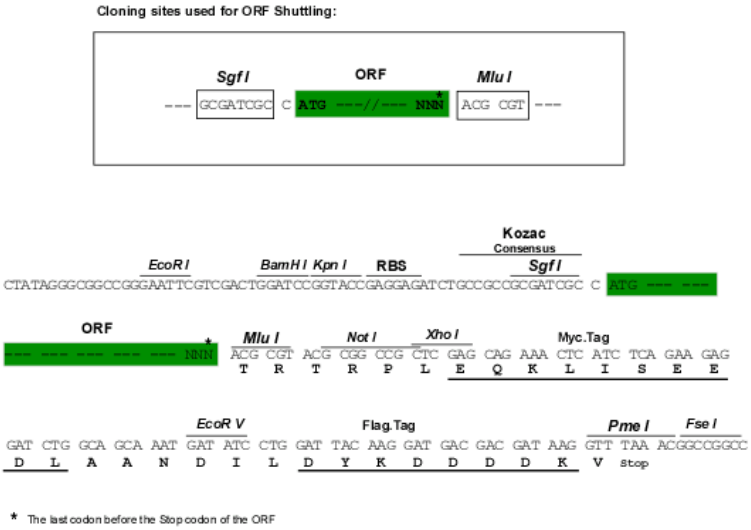
MPLHVKWPFPAVPPLTWTLASSVVMGLVGTYSCFWTKYMNHLTVHNREVLYELIEKRGPATPLITVSNHQ
SCMDDPHLWGILKLRHIWNLKLMRWTPAAADICFTKELHSHFFSLGKCVPVCRGAEFFQAENEGKGVLDT
GRHMPGAGKRREKGDGVYQKGMDFILEKLNHGDWVHIFPEGIGRLIAECHLNPIILPLWHVGMNDVLPNS
PPYFPRFGQKITVLIGKPFSALPVLERLRAENKSAVEMRKALTDFIQEEFQHLKTQAEQLHNHLQPGR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8048_h10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_181312

ORF Size: 834 bp

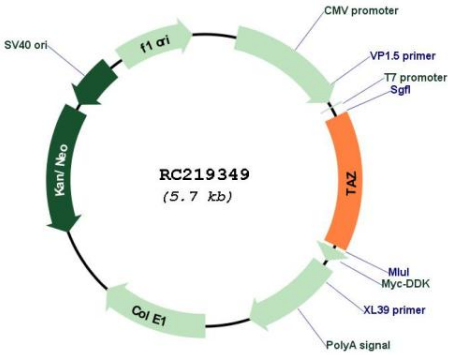
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

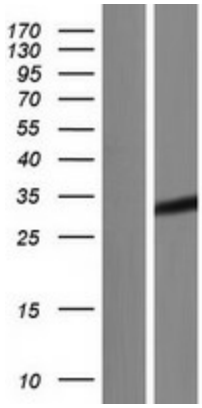
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_181312.4
RefSeq Size:	1862 bp
RefSeq ORF:	837 bp
Locus ID:	6901
UniProt ID:	Q16635
Cytogenetics:	Xq28
Protein Families:	ES Cell Differentiation/IPS, Transmembrane
MW:	31.6 kDa
Gene Summary:	This gene encodes a protein that is expressed at high levels in cardiac and skeletal muscle. Mutations in this gene have been associated with a number of clinical disorders including Barth syndrome, dilated cardiomyopathy (DCM), hypertrophic DCM, endocardial fibroelastosis, and left ventricular noncompaction (LVNC). Multiple transcript variants encoding different isoforms have been described. A long form and a short form of each of these isoforms is produced; the short form lacks a hydrophobic leader sequence and may exist as a cytoplasmic protein rather than being membrane-bound. Other alternatively spliced transcripts have been described but the full-length nature of all these transcripts is not known. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC219349



Western blot validation of overexpression lysate (Cat# [LY405785]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219349 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).