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Product datasheet for RC219401

TAZ (NM_181313) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAZ (NM_181313) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TAFAZZIN
Synonyms:	BTHS; CMD3A; EFE; EFE2; G4.5; LVNCX; TAZ; Taz1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC219401 representing NM_181313 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCCTCTGCACGTGAAGTGGCCGTTCCCCGCGGTGCCGCCGCTCACCTGGACCCTGGCCAGCAGCGTCG TCATGGGCTTGGTGGGCACCTACAGCTGCTTCTGGACCAAGTACATGAACCACCTGACCGTGCACAACAG GGAGGTGCTGTACGAGCTCATCGAGAAGCGAGGCCCGGCCACGCCCCTCATCACCGTGTCCAATCACCAG TCCTGCATGGACGACCCTCATCTCTGGGGGATCCTGAAACTCCGCCACATCTGGAACCTGAAGTTGATGC GTTGGACCCCTGCAGCTGCAGACATCTGCTTCACCAAGGAGCTACACTCCCACTTCTTCAGCTTGGGCAA GTGTGTGCCTGTGTGCCGAGGAGATGGCGTCTACCAGAAGGGGATGGACTTCATTTTGGAGAAGCTCAAC CATGGGGACTGGGTGCATATCTTCCCAGAAGGAATCGGGCGCCTGATTGCTGAGTGTCATCTCAACCCCA TCATCCTGCCCCTGTGGCATGTCGGAATGAATGACGTCCTTCCTAACAGTCCGCCCTACTTCCCCCGCTT TGGACAGAAAATCACTGTGCTGATCGGGAAGCCCTTCAGTGCCCTGCCTGTACTCGAGCGGCTCCGGGCG GAGAACAAGTCGGCTGTGGAGATGCGGAAAGCCCTGACGGACTTCATTCAAGAGGAATTCCAGCATCTGA AGACTCAGGCAGAGCAGCTCCACAACCACCTCCAGCCTGGGAGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

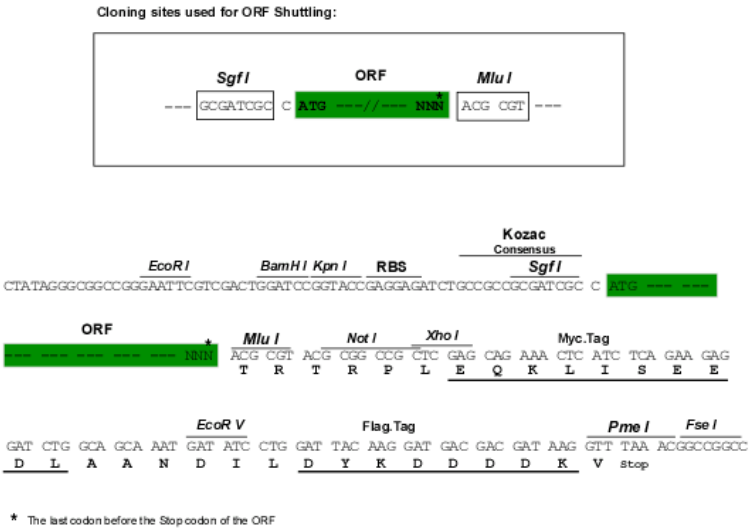
>RC219401 representing NM_181313
Red=Cloning site Green=Tags(s)

MPLHVKWPFPAVPPLTWTLASSVVMGLVGTYSCFWTKYMNHLTVHNREVLYELIEKRGPATPLITVSNHQ
SCMDDPHLWGILKLRHIWNLKLMRWTPAAADICFTKELHSHFFSLGKCVPVCRGDGVYQKGMDFILEKLN
HGDWVHIFPEGIGRLIAECHLNPIILPLWHVGMNDVLPNSPPYFPRFGQKITVLIGKPFSALPVLERLRA
ENKSAVEMRKALTDFIQEEFQHLKTQAEQLHNHLQPGR

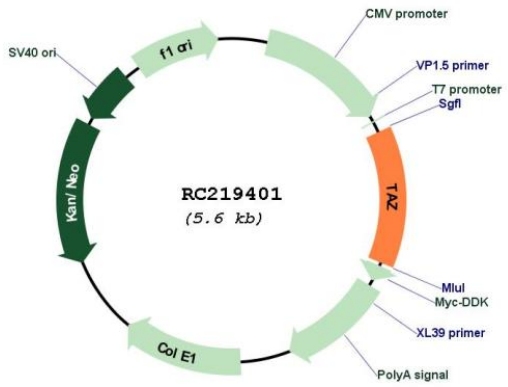
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:

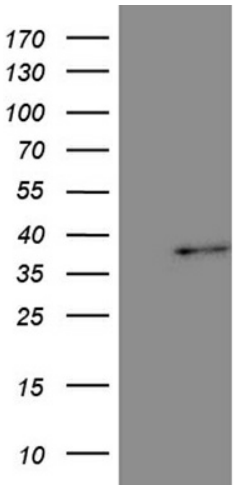


ACCN: NM_181313

ORF Size: 744 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_181313.4
RefSeq Size:	1772 bp
RefSeq ORF:	747 bp
Locus ID:	6901
UniProt ID:	Q16635
Cytogenetics:	Xq28
Protein Families:	ES Cell Differentiation/IPS, Transmembrane
MW:	28.3 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:



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TAZ (Cat# RC219401, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TAZ (Cat# [TA810827])(1:500).