

Product datasheet for **RR204596**

Tpm4 (NM_012678) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tpm4 (NM_012678) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tpm4
Synonyms:	Tpm4.2; Tpm4.2cy
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR204596 representing NM_012678 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGGCCTCAACTCACTGGAGGCGGTGAAGCGCAAGATCCAGGCCCTGCAGCAGCAGGCGGACGACG
CAGAGGACCGTGCGCAGGGCCTGCAGCGCGAGCTGGATGGCGAGCGCAACGGCGCGAGAAAGCTGAAGG
AGATGCGGCCGCTCTCAACCGTCGCATCCAGCTGGTGGAGGAAGAGCTGGACCGGGCTCAGGAGCGACTG
GCCACAGCCCTGCAGAAGCTGGAGGAGGCAGAGAAGGCTGCTGACGAGAGTGAGAGAGGCATGAAGGTGA
TAGAGAACCAGCCATGAAAGACGAGGAGAAGATGGAGATCCAGGAGATGCAGCTCAAAGAAGCCAAGCA
CATCGCTGAGGAGGCTGACCGGAAGTATGAGGAGGTTGCTCGTAAGTTGGTCATCCTGGAGGGTGAGCTG
GAGAGAGCAGAGGAGCGGGCGGAGGTGTCTGAACTAAAGAGTAGCGACCTGGAAGAGGAGCTCAAGAACG
TAACTAACAATCTGAAATCACTGGAGGCTGTTCTGAAAAGTACTCTGAAAAGGAGGATAAATATGAAGA
AGAAATCAAGCTTCTGTCTGACAACTGAAAGAGGCTGAGACCCGAGCTGAGTTTGGGAAAGGACAGTT
TCTAACTGGAGAAGACAATCGATGACCTGGAAGAAAACTTGCCAGGCCAAAGAAGAGAACGTGGCT
TGCATCAGACACTGGACCAGACACTAACGAACCTTAAGTGTATA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR204596 representing NM_012678
 Red=Cloning site Green=Tags(s)

MAGLNSLEAVKRRKIQALQQADDAEDRAQGLQRELDGERERREKAEGDAAALNRRIQLVEEELDRAQERL
 ATALQKLEEAEEKADESERGMKVIENRAMKDEEKMEIQEMQLKEAKHIAEEADRKYEEVARKLVILEGEL
 ERAEERAIEVSELKSSDLEELKKNVTNNLKSLEAASEKYSEKEDKYEEEEIKLLSDKLKEAETRAEFAERTV
 SKLEKTIDDLLEEKLAQAKEENVGLHQTLDQTLNELNCI

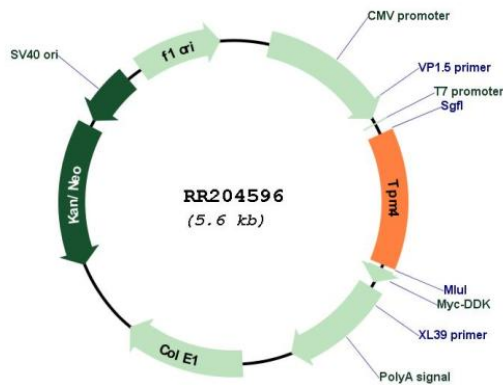
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_012678
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:	<ol style="list-style-type: none">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_012678.2 , NP_036810.1
RefSeq Size:	895 bp
RefSeq ORF:	747 bp
Locus ID:	24852
UniProt ID:	P09495
Cytogenetics:	16p14
MW:	28.5 kDa
Gene Summary:	binds actin filaments; important for calcium-dependent regulation of striated muscle contraction; may be important for stabilizing actin filaments in the cytoskeleton [RGD, Feb 2006]