

Product datasheet for **RC403207**

TNNI3K (NM_015978) Human Mutant ORF Clone

Product data:

Product Type:	Mutant ORF Clones
Product Name:	TNNI3K (NM_015978) Human Mutant ORF Clone
Mutation Description:	R244X
Affected Codon#:	244
Affected NT#:	730
Nucleotide Mutation:	TNNI3K Mutant (R244X), Myc-DDK-tagged ORF clone of Homo sapiens TNNI3 interacting kinase (TNNI3K) as transfection-ready DNA
Effect:	Potential protein deficiency
Symbol:	TNNI3K
Synonyms:	CARK; CCDD
E. coli Selection:	Kanamycin (25 ug/mL)
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
Tag:	Myc-DDK
ACCN:	NM_015978
ORF Size:	729 bp
Restriction Sites:	Sgfi-MluI



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ORF Nucleotide Sequence:

>RC403207 representing NM_015978
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGAAATTATAAATCTAGACCAACCCAACTTGTACTGATGAATGGAAGAAAAAGTCAGTGAATCAT
 ATGTTATACAATAGAAAGATTAGAAGATGACCTGCAGATCAAGGAAAAAGAAGTACAGAACTAAGGAA
 TATATTTGGCTCTGATGAAGCCTTCAGTAAAGTCAATTTAAATTACCGCACTGAAAATGGCTGTCTCTA
 CTTCAATTTATGTTGCATTTGTGGAGGCAAGAAATCACATATTCGAACTCTTATGTTGAAAGGGCTCCGCC
 CATCTCGACTGACAAGAAATGGATTTACAGCCTTGCAATTTAGCAGTTTACAAGGATAATGCAGAATTGAT
 CACTTCTCTGCTTACAGTGGAGCTGATATACAGCAGTTGGATACGGTGGCCTCACTGCCCTCCATATT
 GCTACAATAGCTGGCCACCTAGAGGCTGCTGATGTGCTGTTGCAACATGGAGCTAATGTCAATATTCAAG
 ATGCAGTTTTTTTCACTCCATTGCATATTGCAGCGTACTATGGACATGAACAGGTAAGTGCCTCTTTT
 GAAATTTGGTGTGATGTAATGTAAGTGGTGAAGTTGGAGATAGACCCCTCCACCTAGCATCTGCAAAA
 GGATCTTGAATATTGCAAACTCTTGATGGAAGAAGGCAGCAAAGCAGATGTGAATGCTCAAGATAATG
 AAGACCATGTCCCACTCCATTTCTGTTCT

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGA TAAGGTTTAA

Protein Sequence:

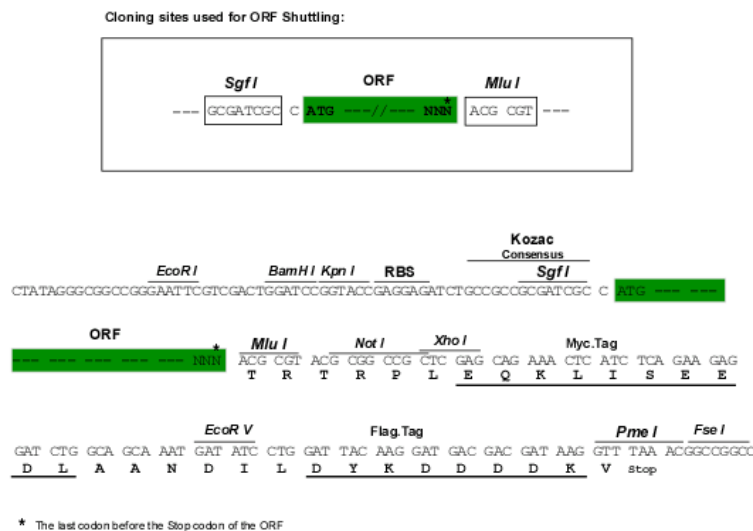
>RC403207 representing NM_015978
 Red=Cloning site Green=Tags(s)

MGNYKSRPTQTCTDEWKKVSESYVITIERLEDDLQIKEKEL TELRNIFGSDEAFSKVNLNYRTENGLSL
 LHLCCICGGKSHIRTLMLKGLRPSRL TRNGFTALHLAVYKDNAELITSLHSGADIQQVGYGGLTALHI
 ATIAGHLEAADVLLQHGANVNIQDAVFFPLHIAAYYGHEQVTRLLLFKADVNVVSGEVDRPLHLASAK
 GFLNIAKLLMEEGSKADVNAQDNEDHVPLHFCS

SGPTRRRLE**QKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


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).
RefSeq:	NP_057062
RefSeq Size:	729 bp
RefSeq ORF:	2508 bp
Locus ID:	51086
Cytogenetics:	1p31.1
Domains:	pkinase, TyrKc, ANK, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
MW:	26.7 kDa
Gene Summary:	This gene encodes a protein that belongs to the MAP kinase kinase kinase (MAPKKK) family of protein kinases. The protein contains ankyrin repeat, protein kinase and serine-rich domains and is thought to play a role in cardiac physiology. [provided by RefSeq, Sep 2012]