

Product datasheet for **RG219069**

TNNI3K (NM_015978) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	TNNI3K
Synonyms:	CARK; CCDD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG219069 representing NM_015978
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGAAATTATAATCTAGACCAACCCAACTTGTACTGATGAATGGAAGAAAAAGTCAGTGAATCAT
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TATATTTGGCTCTGATGAAGCCTTCAGTAAAGTCAATTTAAATTACCGCACTGAAAAAGGGCTGTCTCTA
CTTCATTTATGTTGCATTTGTGGAGGCAAGAAATCACATATTCGAACCTCTTATGTTGAAAGGGCTCCGCC
CATCTCGACTGACAAGAAATGGATTTACAGCCTTGCATTTAGCAGTTTACAAGGATAATGCAGAATTGAT
CACTTCTCTGCTTCACAGTGGAGCTGATATACAGCAGGTTGGATACGGTGGCCTCACTGCCCTCCATATT
GCTACAATAGCTGGCCACCTAGAGGCTGCTGATGTGCTGTTGCAACATGGAGCTAATGTCAATATTCAAG
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GAGCTCAATGCATTTTCATTCTTGCCGAAATAGTAGCAGCTTTGAGGACAGCAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG219069 representing NM_015978

Red=Cloning site Green=Tags(s)

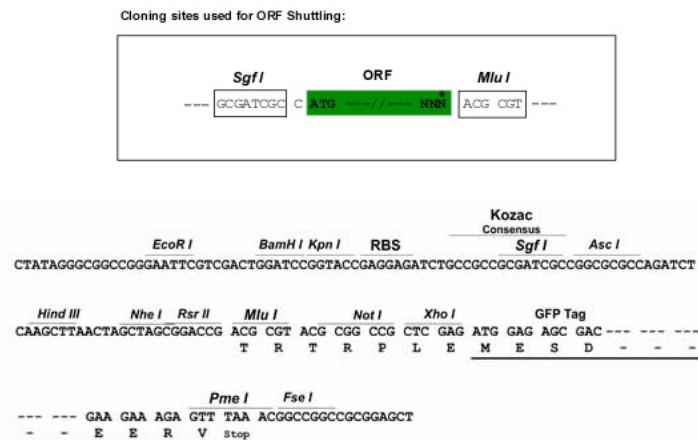
MGNYKSRPTQTCTDEWKKKVSSEYVITIERLEDDLQIKEKELTELRNIFGSDEAFSKVNLNYRTENGLSL
LHLCCICGGKSHIRTLMLKGLRPSRLTRNGFTALHLAVYKDNAELITSLHSGADIQQVGYGGLTALHI
ATIAGHLEADVLLQHGANVNIQDAVFFTPLHIAAAYGHEQVTRLLKFGADVNVSGEVDGDRPLHLASAK
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GKFEVAKEIIQISGTESLTENIFSETAFHSACTYGKSIDLKFLLDQNVININHQGRDGTGLHSACYH
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MAPEVFTQCTRYTIKADVFSYALCLWEILTGEIPFAHLKPAAAAADMAHHIRPPIGYSIPKPISSLLIR
GWNACPEGRPEFSEVVMKLEELCNIELMSPASSNSSGSLSPSSSDCLVNRGGPGRSHVAALRSRFELE
YALNARSYAALSQAGQYSSQGLSLEEMKRSLLQYTPIDKYGVVSDPMSSMHFHSRNSSSFEDSS

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_015978

ORF Size:

2505 bp

OTI Disclaimer:

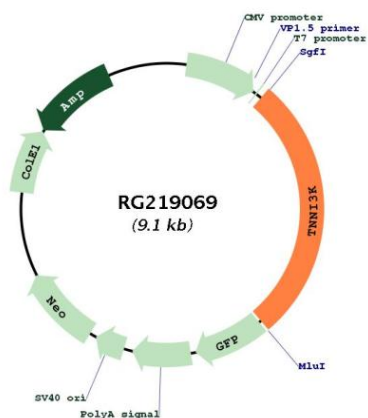
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_015978.3
RefSeq Size:	3001 bp
RefSeq ORF:	2508 bp
Locus ID:	51086
UniProt ID:	Q59H18
Cytogenetics:	1p31.1
Domains:	pkinase, TyrKc, ANK, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
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]

Product images:



Circular map for RG219069