

## Product datasheet for **MG216887**

### Tnni3k (NM\_177066) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tnni3k (NM_177066) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tnni3k
Synonyms:	Cark; D830019J24Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG216887 representing NM\_177066  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGAATTACAAATCCAGACCGACACAGACTTGTCTGATGAATGGAAGAAGAAAGTTAGTGAATCTT  
 ATGCTATTATAATAGAAAGGCTGGAAGATGACCTGCAGATCAAAGAAAATGAATTTCAAGAACTAAGACA  
 CATCTTTGGCTCTGACGAAGCCTTCAGTGAAGTCAAGTTAAATTACCGCACAGAGCGTGGCCTGTCCCTA  
 CTGCACCTCTGCTGTGCCTGCGGTGGCAACAAGTCGCATATCCGTGCCCTTATGTTAAAAGGGCTCCGTC  
 CATCCAGACTGACAAGAAATGGGTTTCCAGCTCTGCACCTGGCTGTTTACAAGGATAGCCTGGAACCTTAT  
 CACTTCACTGTTGCATAGCGGAGCAGATGTTTCAAGCGGGATATGGCGGCTCACAGCCCTCCACATC  
 GCTGCAATAGCTGGGCACCCAGAGGCCGTGGAAGTGTCTGCAGCATGGAGCCAATGTGAACGTTCAAG  
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 CTTGGAGGTTACGCTCAGTCATTAACATCTATGGTGACACTCCTTTCACCTGGCGTGTACAATGGA  
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 GTGAGACAGCTTTTACAGTGTCTGTACCTATGGCAAGAACATTGACCTGGTCAAATTCCTTCTTGATCA  
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 CACATACGCTGGTTCAGTTCCTACTGGATAATGGTGCAGATATGAATCTAGTTGCTTGTATCCAGCA  
 GGTTCTAGTGGTAAAAAGATGAGCAGACATGTTTGTATGTGGCTTATGAGAAAGGACATGATGCCATTGT  
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 AGCTCAATCACCCCTGCGTGGTTCAGTTTGTGGTGCCTGCCTGGATGACCCAGCCAGTTTGCATTGT  
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 GCCCTAAATGCAAGGTCCTACACTGGGTGGCCTCAAAGTGTGGGACACACACTAATCCAGCCTGTCTT  
 TGGAGGAAATGAACAGAGGTGCCAGTATTCAAGCTGTTGACAAATATGGTACGTTGCTGATCCCATGAG  
 CCCGATGCACCTCCACTCCCGCCGAACAGTGGCAGCTTTGAGGACGGCAAC

**ACCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >MG216887 representing NM\_177066  
 Red=Cloning site Green=Tags(s)

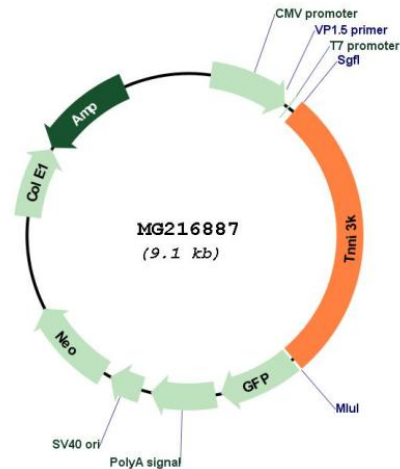
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MGNYKSRPTQTCSEWKKKVSSEYAIIEERLEDDLQIKENEFQELRHIFGSDEAFSEVSLNYRTERGLSL
LHLCCACGGNKSHIRALMLKGLRPSRLTRNGFPALHLAVYKDSLELITSLHSGADVQQAGYGGLTALHI
AAIAGHPEAVEVLLQHGANVNVQDAVFFTPLHIAAAYYGHEQVTSVLLKFGADVNVSGEVGDRPLHLASAK
GFFNIVKLLVEGNKADVNAQDNEDHVPLHFCSRFGHHNIVSYLLQSDLEVQPHVINIYGDTPHLACYNG
NFEVAKEIVHVTGTESLTKENIFSETAFHSACTYGNIDLVKFLLDQNAVNIHRGRDGHTGLHSACYHG
HIRLVQFLLDNGADMNLVACDPSRSSGEKDEQTCLMWAYEKGHDAIVTLLKHYKRPQDELPCNEYSQPGG
DGSYVSVPSPLGKIKSMTKEKADVLLLRAELPSRFHLQLSEIEFHEIIGSGSFGKVKGRCRNKIVAIAKR
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SKLIIAVDVAKGMEYLHSLTQPIIHRDLNSHNILLYEDGHAVVADFGESRFLQSLDEDNMTKQPGNLRWM
APEVFTQCTRYTIKADVFSYALCLWELLTGEIPFAHLKPAAAAADMAYHHIRPPIGYSIPKPISSLLMRG
WNACPEGRPEFSEVVRKLEECLCNVELMSPASSNSGSLSPSSSDCLLSRGGPGRSHVAALRSRFELEY
ALNARSYTGWPQSVGTHNPGLSLEEMNRGAQYSAVDKYGYVSDPMSMHLHSRRNSGSFEDGN
  
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TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfi-MluI



**Plasmid Map:**


**ACCN:** NM\_177066

**ORF Size:** 2502 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_177066.5](#), [NP\\_796040.3](#)

RefSeq Size: 3042 bp

RefSeq ORF: 2505 bp

Locus ID: 435766

UniProt ID: [Q5GIG6](#)

Cytogenetics: 3 H4

Gene Summary: May play a role in cardiac physiology.[UniProtKB/Swiss-Prot Function]