

## Product datasheet for **RC237613**

### ETNK2 (NM\_001297762) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ETNK2 (NM_001297762) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ETNK2
Synonyms:	EKI2; HMFT1716
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237613 representing NM_001297762 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCTGTGCCCCCTTCGGCCCCTCAGCCGCGCGCTCCTTTACCTGAGGAGGCACACGCCTTGCCCGC  
AGTGCTCATGGGCATGGAGGAGAAGGCGGCCAGCCAGCTGCCGGGAGCCCGGCCCGCCCGAG  
GGCCGCCCGCGTGCCTACTTCGGCATTCCGTGGACCCGGACGACATCCTTCCCGGGCCCTGCGCCTC  
ATCCAGGAGCTGCGGCCGATTGGAAACCCGAGCAAGTTCGGACCAAGCGCTTACGGATGGCATACCA  
ACAAGCTGGTGGCCTGCTATGTGGAGGAGGACATGCAGGACTGCGTGTGGTCCGGGTGTATGGGGAGCG  
GACGGAGCTGCTGGTGGACCCGGGAGAATGAGGTCAGAACTTCCAGCTGCTGCGAGCACACAGCTGTGCC  
CCCAAACCTACTGCACCTTCCAGAAATGGGCTGTGCTATGAGTACATGCAGGGTGTGGCCCTGGAGCCTG  
AGCACATCCGTGAGCCCCGGCTTTTCAGCCTTCTGCAGATGTCCCTAAGGTAGAGGTGTTGGAACGGGA  
GCTGGCCTGGCTGAAGGAGCATCTGTCCAGCTGGAGTCCCCTGTGGTGTGTTTGTCAATGACCTGCTC  
TGCAAGAATATCATCTATGACAGCATCAAAGTCAAGTGCAGGCTGATGACTATGAATGCTGGCTACA  
ACTACCAAGCTTTTGACATTGGCAACATTTCAATGAGTTTGCAGCGCTGAATGAGGTGGATTACTGCCT  
GTACCCGCGCGGGAGACCCAGCTGCAGTGGCTGCACTACTACCTGCAGGCACAAAAGGGGATGGCCGTG  
ACCCCCAGGGAGGTGCAAAGGCTCTACGTGCAAGTCAACAAGTTTGCCCTGGCGTCTCACTTCTTCTGGG  
CTCTCTGGGCCCTCATCCAGAACCAGTACTCCACCATCGACTTTGATTTCCCTCAGGTACGCAGTGATCCG  
ATTCAACCAGTACTTCAAGGTGAAGCCTCAAGCGTCAGCCTTGGAGATGCCAAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237613 representing NM\_001297762  
 Red=Cloning site Green=Tags(s)

MAVPPSAPQPRASFHLRRHTPCPQCSWGMEEKAAASASCREPPGPPRAAAVAYFGISVDPDDILPGALRL  
 IQELRPHWKPEQVRTKRF TDGITNKL VACYVEEDM QDCVLRVYGERTELLVDRENEVRNFQLLRAHSCA  
 PKLYCTFQNLGCYEYMQGVALEPEHIREPRLFSL SADVPKVEVLERELAWLKEHLSQLESPVVFCHNDLL  
 CKNIIYDSIKGHVRFIDY EYAGYNYQAFDIGNHFN EFAGVNEVDYCLYPARETQLQWLHYLQAQKGMAY  
 TPREVQLRYVQVNFALASHFFWALWALIQNQYSTIDFDLRYAVIRFNQYFKVKPQASALEMPK

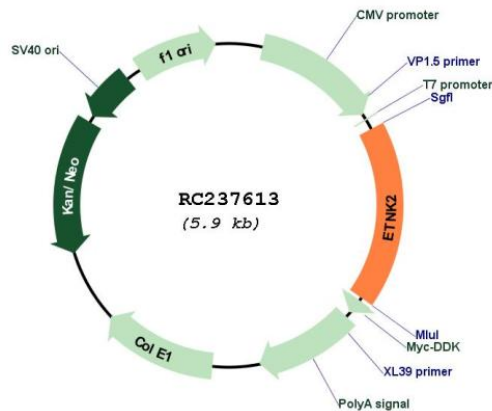
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001297762

**ORF Size:** 1035 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001297762.2</a>
<b>RefSeq Size:</b>	2515 bp
<b>RefSeq ORF:</b>	1038 bp
<b>Locus ID:</b>	55224
<b>UniProt ID:</b>	<a href="#">Q9NVF9</a>
<b>Cytogenetics:</b>	1q32.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Glycerophospholipid metabolism, Metabolic pathways
<b>MW:</b>	40.5 kDa
<b>Gene Summary:</b>	The protein encoded by this gene is a member of choline/ethanolamine kinase family which catalyzes the first step of phosphatidylethanolamine (PtdEtn) biosynthesis via the cytidine diphosphate (CDP) ethanolamine pathway. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]