

## Product datasheet for RC236578

### ETNK2 (NM\_001297761) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ETNK2 (NM\_001297761) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** ETNK2  
**Synonyms:** EK12; HMFT1716  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC236578 representing NM\_001297761  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCAAAGATTCATACTATCCACGCCAACGGCAGCCTGCCAAGCCCATCCTCTGGCACAAGATGCACA  
 ATTATTTACGCTTGTGAAGAACGAGATCAACCCAGCCTTTCTGCAGATGTCCCTAAGGTAGAGGTGTT  
 GGAACGGGAGCTGGCCTGGCTGAAGGAGCATCTGTCCAGCTGGAGTCCCCTGTGGTGTGTTGTGCAAT  
 GACCTGCTCTGCAAGAATATCATCTATGACAGCATCAAAGGTCACGTGCGGTTTCATTGACTATGAATATG  
 CTGGCTACAACCTACCAAGCTTTTGACATTGGCAACCATTTCAATGAGTTTGCAGGCGTGAATGAGGTGGA  
 TTAAGCTGTACCCGGCGGGGAGACCCAGCTGCAGTGGCTGCACTACTACCTGCAGGCACAAAAGGGG  
 ATGGCCGTGACCCCGAGGAGGTGCAAAGGCTCTACGTGCAAGTCAACAAGTTTGCCTGGCGTCTCACT  
 TCTTCTGGGCTCTCTGGGCCCTCATCCAGAACCAGTACTCCACCATCGACTTTGATTTCTCAGGTACGC  
 AGTGATCCGATTCAACAGTACTTCAAGGTGAAGCCTCAAGCGTCAGCCTTGGAGATGCCAAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC236578 representing NM\_001297761  
 Red=Cloning site Green=Tags(s)

MAKIHTIHANGSLPKPILWHKMHNFTLVKNEINPSLSADVPKVEVLERELAWLKEHLSQLESPVVFCHN  
 DLLCKNIIYDSIKGHVRFIDYEYAGYNYQAFDIGNHFNEFAGVNEVDYCLYPARETQLQLHYLLQAQKG  
 MAVTPREVQRLYVQVNFALASHFFWALWALIQNYSTIDFDLRYAVIRFNQYFKVKPQASALEMPK

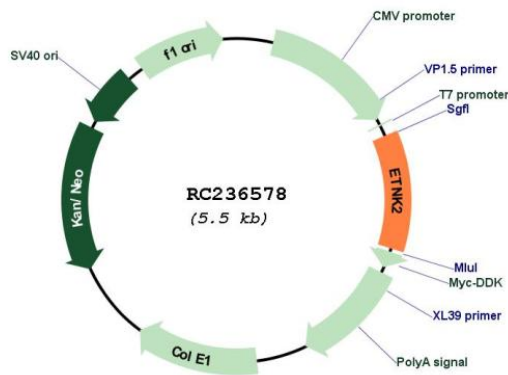
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001297761

**ORF Size:** 624 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.

**RefSeq:** [NM\\_001297761.2](#)

**RefSeq Size:** 2378 bp

**RefSeq ORF:** 627 bp

**Locus ID:** 55224

**UniProt ID:** [Q9NVF9](#)

**Cytogenetics:** 1q32.1

**Protein Families:** Druggable Genome

**Protein Pathways:** Glycerophospholipid metabolism, Metabolic pathways

**MW:** 25 kDa

**Gene Summary:** 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]