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Product datasheet for RC214974

ETNK2 (NM_018208) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ETNK2 (NM_018208) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ETNK2
Synonyms:	EKI2; HMFT1716
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC214974 representing NM_018208
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGTGCCCCCTTCGGCCCCTCAGCCGCGCGCGTCCTTTCACCTGAGGAGGCACACGCCTTGCCCGC
AGTGCTCATGGGGCATGGAGGAGAAGGCGGCGGCCAGCGCCAGCTGCCGGGAGCCGCCGGGCCCCCCGAG
GGCCGCCGCCGTCGCGTACTTCGGCATTTCCGTGGACCCGGACGACATCCTTCCCGGGGCCCTGCGCCTC
ATCCAGGAGCTGCGGCCGCATTGGAAACCCGAGCAAGTTCGGACCAAGCGCTTCACGGATGGCATCACCA
ACAAGCTGGTGGCCTGCTATGTGGAGGAGGACATGCAGGACTGCGTGCTGGTCCGGGTGTATGGGGAGCG
GACGGAGCTGCTGGTGGACCGGGAGAATGAGGTCAGAAACTTCCAGCTGCTGCGAGCACACAGCTGTGCC
CCCAAACTCTACTGCACCTTCCAGAATGGGCTGTGCTATGAGTACATGCAGGGTGTGGCCCTGGAGCCTG
AGCACATCCGTGAGCCCCGGCTTTTCAGGTTAATCGCCTTAGAAATGGCAAAGATTCATACTATCCACGC
CAACGGCAGCCTGCCCAAGCCCATCCTCTGGCACAAGATGCACAATTATTTCACGCTTGTGAAGAACGAG
ATCAACCCCAGCCTTTCTGCAGATGTCCCTAAGGTAGAGGTGTTGGAACGGGAGCTGGCCTGGCTGAAGG
AGCATCTGTCCCAGCTGGAGTCCCCTGTGGTGTTTTGTCACAATGACCTGCTCTGCAAGAATATCATCTA
TGACAGCATCAAAGGTCACGTGCGGTTCATTGACTATGAATATGCTGGCTACAACTACCAAGCTTTTGAC
ATTGGCAACCATTTCAATGAGTTTGCAGGCGTGAATGAGGTGGATTACTGCCTGTACCCGGCGCGGGAGA
CCCAGCTGCAGTGGCTGCACTACTACCTGCAGACACAAAAGGGGATGGCCGTGACCCCCAGGGAGGTGCA
AAGGCTCTACGTGCAAGTCAACAAGTTTGCCCTGGCGTCTCACTTCTTCTGGGCTCTCTGGGCCCTCATC
CAGAACCAGTACTCCACCATCGACTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

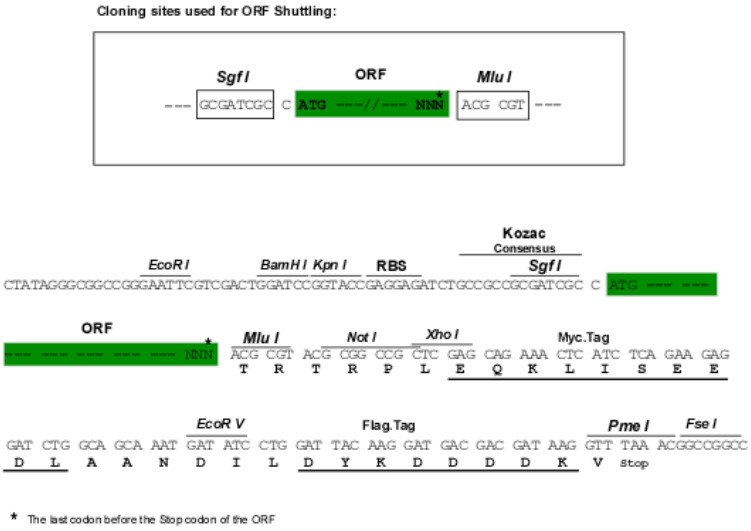
>RC214974 representing NM_018208
Red=Cloning site Green=Tags(s)

MAVPPSAPQPRASFHLRRHTPCPQCSWGMEEKAAASASCREPPGPPRAAAVAYFGISVDPDDILPGALRL
IQELRPHWKPEQVRTKRFTDGITNKLVACYVEEDMQDCVLVRVYGERTELLVDRENEVRNFQLLRAHSCA
PKLYCTFQNGLCYEYMQGVALEPEHIREPRLFRLIALEMAKIHTIHANGSLPKPILWHKMHNYFTLVKNE
INPSLSADVPKVEVLERELAWLKEHLSQLESPVVFCHNDLLCKNIIYDSIKGHVRFIDYEYAGYNYQAFD
IGNHFNEFAGVNEVDYCLYPARETQLQWLHYYLQTQKGMAVTPREVQRLYVQVNKFALASHFFWALWALI
QNQYSTID

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018208

ORF Size: 2537 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 Size: 2430 bp

RefSeq ORF: 1161 bp

Locus ID: 55224

UniProt ID: Q9NVF9

Cytogenetics: 1q32.1

Domains: Choline_kinase

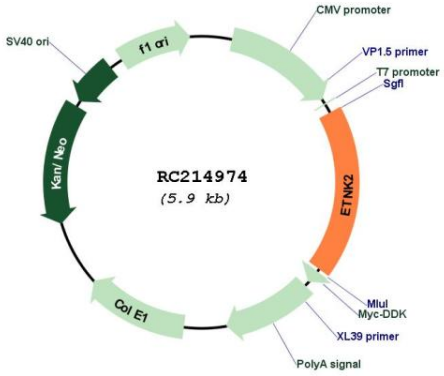
Protein Families: Druggable Genome

Protein Pathways: Glycerophospholipid metabolism, Metabolic pathways

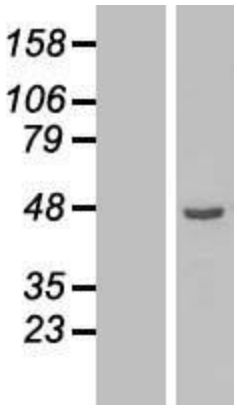
MW: 41.54 kDa

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]

Product images:



Circular map for RC214974



Western blot validation of overexpression lysate (Cat# [LY413217]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214974 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).