

Product datasheet for **RG214974**

ETNK2 (NM_018208) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ETNK2 (NM_018208) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ETNK2
Synonyms:	EKI2; HMFT1716
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214974 representing NM_018208 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGTGCCCCCTTCGGCCCCCTCAGCAGCGCGCTCCTTTACCTGAGGAGGCACACGCCTTGCCCCG
AGTGCTCATGGGGCATGGAGGAGAAGGCCGGCGCCAGCGCCAGCTGCCGGGAGCCCGGGCCCCCGAG
GGCCGCCCGCGTCCGTAATTCGGCATTCCGTGGACCCGGACGACATCCTTCCCGGGCCCTGCGCCTC
ATCCAGGAGCTGCGGCCGATTGGAAACCCGAGCAAGTTCGGACCAAGCGCTTACGGATGGCATCACCA
ACAAGCTGGTGGCCTGCTATGTGGAGGAGGACATGCAGGACTGCGTGCTGGTCCGGGTGTATGGGGAGCG
GACGGAGCTGCTGGTGGACCCGGGAGAATGAGGTACAGAACTTCCAGCTGCTGCGAGCACACAGCTGTGCC
CCCAAACTCTACTGCACCTTCCAGAATGGGCTGTGCTATGAGTACATGCAGGGTGTGGCCCTGGAGCCTG
AGCACATCCGTGAGCCCCGGCTTTTCAGGTTAATCGCCTTAGAAAATGGCAAAGATTACTACTATCCACGC
CAACGGCAGCCTGCCAAGCCATCCTCTGGCACAAGATGCACAATTATTCACGCTTGTGAAGAACGAG
ATCAACCCAGCCTTTCTGCAGATGTCCCTAAGGTAGAGGTGTTGGAACGGGAGCTGGCCTGGCTGAAGG
AGCATCTGTCCCAGCTGGAGTCCCCTGTGGTGTGTTGTCAATGACCTGCTCTGCAAGAATATCATCTA
TGACAGCATCAAAGTCAAGTTCAGGCGTGAATGAGGTGGATTACTGCCTGTACCCGGCGCGGGGAGA
ATTGGCAACCATTTCAATGAGTTTGCAGGCGTGAATGAGGTGGATTACTGCCTGTACCCGGCGCGGGGAGA
CCCAGCTGCAGTGGCTGCACTACTACCTGCAGGCACAAAAGGGGATGGCCGTGACCCCGAGGAGGTGCA
AAGGCTCTACGTGCAAGTCAACAAGTTTGCCTGGGTCCTAGCTGTGTGCTTCCACAATGACTGCATCC
CTCCAGTGTAGAGTCGGAACAGGCATGGGGAGATTGCCAGGCTGACCCTCTCTGGTCTGTTCCAG
CGCTCTCACTTCTCTGGGCTCTCTGGGCCCTCATCCAGAACCAGTACTCCACCATCGACTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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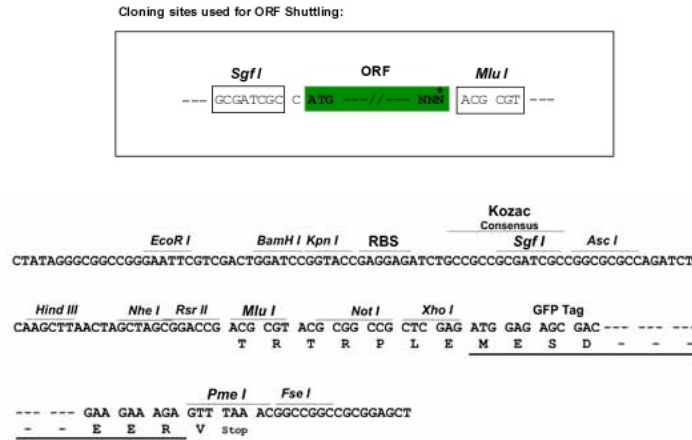
Protein Sequence: >RG214974 representing NM_018208
 Red=Cloning site Green=Tags(s)

MAVPPSAPQQRASFHLRRHTPCPQCSWGMEEKAAASASCREPPGPPRAAAVAYFGISVDPDDILPGALRL
 IQELRPHWKPEQVRTKRF TDGITNKL VACYVEEDMQDCVLRVYGERTELLVDRENEVRNFQLLRAHSCA
 PKLYCTFQNLGCEYMQGVALEPEHIREPRLFRLIALEMAKIHTIHANGSLPKPILWHKMHNFTLVKNE
 INPSLSADVPKVEVLERELAWLKEHLSQLESPVVFCNDLLCKNIYDSIKGHVRFIDYEYAGYNYQAFD
 IGNHFNEFAGVNEVDYCLYPARETQLQWLHYYLQAQKGMVTPREVQRLYVQVNFALGPSCVSSMTAS
 LQCCRVGNRHGEIARLTL SGLFPGVSLLLGSLGPHPEPVLHHRL

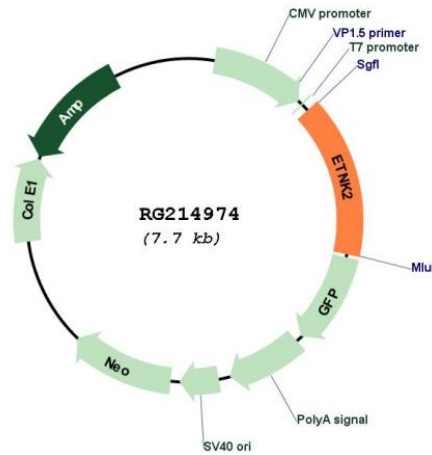
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_018208

ORF Size:	1182 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:	<ol style="list-style-type: none">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_018208.1 , NP_060678.1
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
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]