

## Product datasheet for **SC322107**

### ethanolamine kinase (ETNK1) (NM\_018638) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ethanolamine kinase (ETNK1) (NM_018638) Human Untagged Clone
Tag:	Tag Free
Symbol:	ethanolamine kinase
Synonyms:	EKI; EKI 1; EKI1; Nbla10396
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for SC322107  
 CCAGCGTCAGGCCAGCCCCGGCATGCTCTGCGGCCCGCCGGTCCAGCTCCGACAACAG  
 GAATTTTCTCCGAGAGCGGGCCGGCTCAGTTCAGCTGTGTCCAGACCCGGATCGGCAA  
 CAGTGCCGCTCCAGACGTTCTCTGCGCTCGCCCGCCCGTCCAGCGCCCCAGCCCT  
 CCCGCGAGGGCGCCCCGGGACGGAAGGATCCACCAGTCTGTGCGGCCCGCCGTTCTCGT  
 GGTGCGCGTGTGCGTGTGTTGGTAGTCTCCGCCGTCGCTGGGCCATGGCCAATTA  
 CATCCACGTCCTCCCGCTCCCGGAGGTGCCAAGCTGAACGTACCCTTCAGGATCA  
 GGAGGAGCATCGTGCCTGGGAGGGGCCCTGAGCCTCTGCAACACCTGCGGCCTCACTG  
 GGACCCCAAGGAGGTGACCCTGCAGCTTTCACAGATGGAATCACAAATAAACTTATTGG  
 CTGTTACGTGGGAAACACCATGGAGGATGTAGTCTGGTGAATTTATGGCAATAAGAC  
 TGAGTTATTAGTCGATCGAGATGAGGAAGTAAAGAGTTTTCGAGTGTGCAGGCTCATGG  
 GTGTGCACCACAACCTACTGTACCTTCAATAATGGACTATGCTATGAATTTATACAAGG  
 AGAAGCACTGGATCCAAAGCATGTCTGCAACCCAGCCATTTTCAGGCTAATAGCTCGTCA  
 GCTTGCTAAAAATCCATGCTATTCATGCACACAATGGCTGGATCCCCAAATCTAATCTTTG  
 GCTAAAGATGGGAAAGTATTTCTCTCATTCCCACAGGATTTGCAGATGAAGACATTA  
 TAAAAGTTTCTAAGTATATCCCAAGCTCAGATTCTCCAGGAAGAGATGACTGGAT  
 GAAGGAGATCTTTCAACCTGGGCTCACCTGTTGTGCTTTGCCATAATGACCTATTGTG  
 TAAGAATAAATCTACAATGAGAAACAAGGTGATGTACAGTTCATTGATTATGAATATTC  
 TGGATAACAACCTGGCATATGATATTGAAAATCATTTCAATGAATTTGCAGGTGTGAG  
 TGATGTAGACTATAGTCTGTATCCAGATAGAGAACTACAGAGTCAAGTGGCTGCGTGCTTA  
 CCTGAAGCCTACAAAGAATTTAAGGGCTTTGGGACTGAAGTTACTGAAAAGGAGGTAGA  
 AATACTCTTCAAGTCAATCAGTTTGCATTGGCTTCTCATTCTTTTGGGATTGTG  
 GGCTTTGATTCAAGCCAAATACTCCACTATTGAGTTTGTATTTCTTGGGTATGCAATTGT  
 TCGTTTTAACCAGTACTTTAAAATGAAGCCTGAGGTTACTGCATTAAGTGCCTGAGTA  
 AAGAAGAGATTTAATTATCTCCAGTAGCTGAGCAATGCTTGTGAATCTTTTCTAAGAA  
 ATCCCAAAAAGCCAATATTAGTTAAAATCTGTTGTTAATTTGGTTATCTTGTCTTATA  
 AATTATGCCTCTAAACAATCAAAAAAAAAAAAAAAAAA



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<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_018638
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_018638.4</a> , <a href="#">NP_061108.2</a>
<b>RefSeq Size:</b>	7101 bp
<b>RefSeq ORF:</b>	1359 bp
<b>Locus ID:</b>	55500
<b>UniProt ID:</b>	<a href="#">Q9HBU6</a>
<b>Cytogenetics:</b>	12p12.1
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Glycerophospholipid metabolism, Metabolic pathways

**Gene Summary:**

This gene encodes an ethanolamine kinase, which functions in the first committed step of the phosphatidylethanolamine synthesis pathway. This cytosolic enzyme is specific for ethanolamine and exhibits negligible kinase activity on choline. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2008]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (A). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.