

Product datasheet for **RG209732**

ethanolamine kinase (ETNK1) (NM_018638) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ethanolamine kinase (ETNK1) (NM_018638) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ethanolamine kinase
Synonyms:	EKI; EKI 1; EKI1; Nbla10396
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG209732 representing NM_018638
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCTCTGCGGCCGCCGCGGTCCAGCTCCGACAACAGGAATTTCTCCGAGAGCGGGCCGGCTCAGTT
 CAGCTGCTGTCCAGACCCGGATCGGCAACAGTGC CGCCTCCAGACGTTCTCTGCCGCTCGCCCGCCGT
 CCCAGCGCCCCAGCCCTCCCGCGAGGGCGCCCGGGACGGAAGGATCCACCAGTCTGTCGGCGCCCGCC
 GTTCTCGTGGTCGCCGTCGCGTCGTCGTGGTGGTAGTCTCCGCCGTCGCTGGGCCATGGCCAATTACA
 TCCACGTCCTCCCGCTCCCGGAGGTGCCAAGCTGAACGTCACCGTTCAGGATCAGGAGGAGCATCG
 CTGCCGGAGGGGGCCCTGAGCCTCCTGCAACACCTGCGGCCTACTGGGACCCCGAGGAGTGACCCTG
 CAGCTCTCACAGATGGAATCACAATAAACTTATTGGCTGTTACGTGGGAAACACCATGGAGGATGTAG
 TCCTGGTGAGAATTTATGGCAATAAGACTGAGTTATTAGTCGATCGAGATGAGGAAGTAAGAGTTTTCG
 AGTGTTCAGGCTCATGGGTGTGCACCACAACCTACTGTACCTCAATAATGGACTATGCTATGAATTT
 ATACAAGGAGAAGCACTGGATCCAAAGCATGTCTGCAACCCAGCCATTTTCAGGCTAATAGCTCGTCAGC
 TTGCTAAAATCCATGCTATTCATGCACACAATGGCTGGATCCCCAAATCTAATCTTTGGCTAAAGATGGG
 AAAGTATTTCTCTCATTCCCACAGGATTTGCAGATGAAGACATTAATAAAAGGTTCTAAGTGATATC
 CCAAGCTCTCAGATTCTCCAGGAAGAGATGACTTGGATGAAGGAGATTCTTTCCAACCTGGGCTCACCTG
 TTGTGCTTTGCCATAATGACCTATTGTGTAAGAATAAATCTACAATGAGAAACAAGGTGATGTACAGTT
 CATTGATTATGAATTTCTGGATACAACCTACCTGGCATATGATATTGAAATCATTTCAATGAATTTGCA
 GGTGTGAGTGATGTAGACTATAGTCTGTATCCAGATAGAGAACTACAGAGTCAGTGGCTGCGTGCCTTACC
 TTGAAGCCTACAAGAATTTAAGGGCTTTGGACTGAAGTTACTGAAAAGGAGGTAGAAATACTCTTCAT
 TCAAGTCAATCAGTTTGCAATGGCTTCTCATTCTTTTGGGGATTGTGGGCTTTGATTCAAGCCAATAC
 TCCACTATTGAGTTTGATTTCTTGGGTATGCAATTGTCGTTTTAACCGTACTTTAAAATGAAGCCTG
 AGGTTACTGCATTAAGTGCCTGAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG209732 representing NM_018638
 Red=Cloning site Green=Tags(s)

MLCGRPRSSSDNRNFLRERAGLSSAAVQTRIGNSAASRRSPAARPPVPAPPALPRGRPGTEGSTLSLAPA
 VLVVAVAVVVVVSAVAVAMANYIHVPPGSEVPKLNVTVDQEEHRCREGALSLQLHRPHWDPQEVTL
 QLFTDGI TNKLI GCVVGNMDEVVLVRIYGNKTELLVDRDEEVKSFRVLQAHGCAPQLYCTFNNGLCYEF
 IQGEALDPKHVCNPAIFRLIARQLAKIHAHNGWIPKSNLWLMGKYFSLIPTGFADEDINKRFLSDI
 PSSQILQEEMTWKEILSNL GSPVVLCHNDLLCKNIIYNEKQGDVQFIDYEYSYNYLAYDIGNHFNEFA
 GVSVDVDSLYPDRELQSQWLRAYLEAYKEFKGFGEVTEKEVEILFIQVNFALASHFFWGLWALIQAKY
 STIEFDLGYAIVRFNQYFKMKPEVTALKVPE

TRTRPLE – GFP Tag – V

Chromatograms:

https://cdn.origene.com/chromatograms/ja2255_a07.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_018638

ORF Size: 1356 bp

OTI Disclaimer: 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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

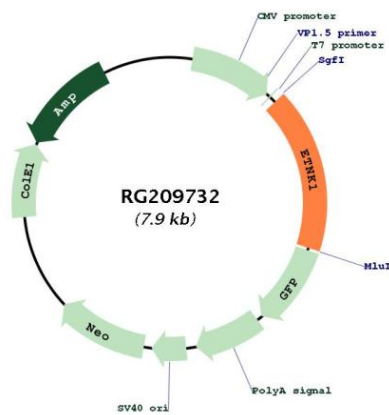
Reconstitution Method:

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_018638.4](#), [NP_061108.2](#)

RefSeq Size:	7101 bp
RefSeq ORF:	1092 bp
Locus ID:	55500
UniProt ID:	Q9HBU6
Cytogenetics:	12p12.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	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]

Product images:



Circular map for RG209732