

## Product datasheet for **RG211556**

### ethanolamine kinase (ETNK1) (NM\_001039481) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ethanolamine kinase (ETNK1) (NM_001039481) 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)
ORF Nucleotide Sequence:	>RG211556 representing NM_001039481 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTCTGCGGCCCGCCGCGGTCCAGCTCCGACAAACAGGAATTTCTCCGAGAGCGGGCCGGCTCAGTT  
CAGCTGCTGTCCAGACCCGGATCGGCAACAGTCCGCCTCCAGACGTTCTCTGCCGCTCGCCCGCCGT  
CCCAGCGCCCCAGCCCTCCCGGAGGGCGCCCGGGACGGAAGGATCCACCAGTCTGTCGGCGCCCGCC  
GTTCTCGTGGTCGCCGTCGCCGTCGTGTTGTTAGTCTCCGCCGTCGCTGGCCATGGCCAATTACA  
TCCACGTCCTCCCGGCTCCCGGAGGTGCCAAGCTGAACGTCACCGTTCAGGATCAGGAGGAGCATCG  
CTGCCGGGAGGGGCCCTGAGCCTCCTGCAACACCTGCGGCTCACTGGGACCCCAAGGAGTGACCCTG  
CAGCTCTTCACAGATGGAATCACAAATAAACTTATTGGCTGTTACGTGGGAAACACCATGGAGGATGTAG  
TCCTGGTGAATTTATGGCAATAAGACTGAGTTATTAGTCGATCGAGATGAGGAAGTAAAGAGTTTTCG  
AGTGTTCAGGCTCATGGGTGTGCACCACAACCTACTGTACCTCAATAATGGACTATGCATGAATTT  
ATACAAGGAGAAGCACTGGATCCAAGCATGTCTGCAACCCAGCCATTTTCAGTTTATCATCGTTGACTC  
TTTGCAAAGGAAAACTACAAGATGTTTTGGATTAACCGGCTGCAGAGGGTCAAGCTTCTGCTTAGTTT  
TTTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG211556 representing NM\_001039481  
 Red=Cloning site Green=Tags(s)

MLCGRPRSSSDNRNFLRERAGLSSAAVQTRIGNSAASRRSPAARPPVPAPPALPRGRPGTEGSTLSLAPAVLVVAVAVVVVVSAVAVAMANYIHVPPGSPEVPKLNVTVDQEEHRCREGALSLQLRPHWDPQEVTLQLFTDGIITNKLIGCYVGNMDEVVLRVIYGNKTELLVDRDEEVKSFVRLQAHGCAPQLYCTFNNGLCYEFIQGEALDPKHVCNPAIFSLSSLTLCKGKTTRCFGLTGCRGRSRLLSFF

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001039481

**ORF Size:** 774 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\\_001039481.1](#), [NP\\_001034570.1](#)

**RefSeq Size:** 910 bp

**RefSeq ORF:** 510 bp

**Locus ID:** 55500

**UniProt ID:** [Q9HBU6](#)

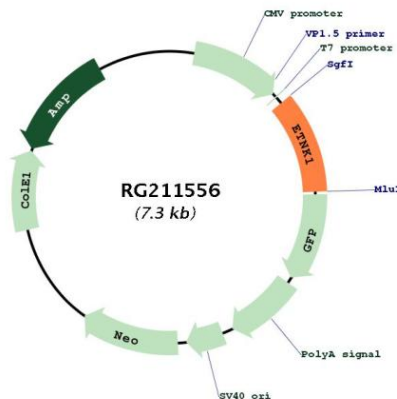
**Cytogenetics:** 12p12.1

**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 RG211556