

Product datasheet for **RG235227**

AE2 (SLC4A2) (NM_001199694) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: AE2 (SLC4A2) (NM_001199694) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SLC4A2
Synonyms: AE2; BND3L; EPB3L1; HKB3; NBND3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG235227 representing NM_001199694
Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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GGGAGGTGTGGACGAGTACAATGAGATGCCCATGCCTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA

Protein Sequence: >RG235227 representing NM_001199694
 Red=Cloning site Green=Tags(s)

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MTQPEPESLGPGTGPFPPEQEDELHRTLGVVERFEEILQEAGSRGGEEPGRSYGEEDFEYHRQSSHHIHP
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TRTRPLE - GFP Tag - V

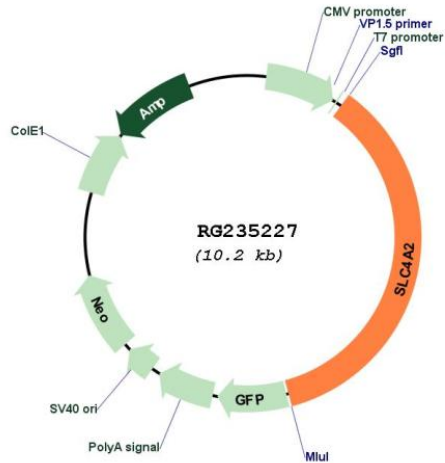
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001199694

ORF Size: 3681 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_001199694.2](#)

RefSeq Size: 4390 bp

RefSeq ORF: 3684 bp

Locus ID: 6522

UniProt ID: [P04920](#)

Cytogenetics: 7q36.1

Protein Families: Transmembrane

Gene Summary: This gene encodes a member of the anion exchanger family of membrane transport proteins. The encoded protein regulates intracellular pH, biliary bicarbonate secretion, and chloride uptake. Reduced expression of this gene may be associated with primary biliary cirrhosis (PBC) in human patients, while differential expression of this gene may be associated with malignant hepatocellular carcinoma, colon and gastric cancers. [provided by RefSeq, Nov 2016]