

## Product datasheet for **SC331346**

### AE2 (SLC4A2) (NM\_001199694) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** AE2 (SLC4A2) (NM\_001199694) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** SLC4A2  
**Synonyms:** AE2; BND3L; EPB3L1; HKB3; NBND3  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC331346 representing NM\_001199694.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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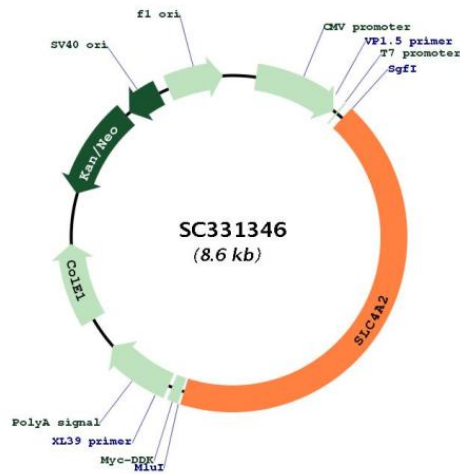
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```

Restriction Sites:

SgfI-MluI

Plasmid Map:



ACCN: NM\_001199694

Insert Size: 3684 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_001199694.1](#)

**RefSeq Size:** 4390 bp

**RefSeq ORF:** 3684 bp

**Locus ID:** 6522

**UniProt ID:** [P04920](#)

**Cytogenetics:** 7q36.1

**Protein Families:** Transmembrane

**MW:** 135.6 kDa

**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]

Transcript Variant: This variant (4) lacks two exons from the 5' end and contains an alternate 5' exon, as compared to variant 1. The resulting isoform (3) has a shorter and different N-terminus, as compared to isoform 1.