

## Product datasheet for **SC125679**

### AE2 (SLC4A2) (BC009386) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AE2 (SLC4A2) (BC009386) Human Untagged Clone
Tag:	Tag Free
Symbol:	AE2
Synonyms:	AE2; anion exchanger 2 type a; anion exchanger 2 type b1; anion exchanger 2 type b2; BND3L; EPB3L1; HKB3; NBND3; solute carrier family 4, anion exchanger, member 2 (erythrocyte membrane protein band 3-like 1)
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC009386 edited

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CTGCGGCCTCAGGTGCGAGGGGTCTGCGACCCTCTCTCCCATGGCGGCAAGCTCCCTGC
GCCTCTCCCCGTCCCCTCGTCCCACGGGGCTGCTTCTGGTGGGAGTGGGGCTGGGCGCTT
AGGGGAGCCAGGAGATGGACAGGAGCCTTCTCACAGAGGGGAGAAGCCAGCCCCCTGGC
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CCCACCATTTGAGGAGGGGGAGGAAGATGAGGATGAGGCCAGCGAGGCTGAGGGGCCCCG
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 GGTGGGATGGGGTTCCCCCTCCCATGCCCTCCCTCCTTTTTATTAAAGTGAATAATTTA  
 AAGTCTTCTCCTCCCCACTGCCCTGCAGTAAAGTGCTTTGGCCCCAAAAAAAAAAAAA  
 AAAAAAAAAA

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for BC009386 unedited</p> <pre>TCGCCATTTGTAATACGACTCACTATAGGGCGGACCGGATTCGGCACGAGGCTGCGGCC TCAGGTGCGAGGGGTCTGCGACCCTCTCTCCCCTGGCGGCAAGCTCCCTGCGCCTCTCCC CGTCCCCTCGTCCCACGGGGCTGCTTCTGGTGGGAGTGGGGCTGGGCGCTTAGGGGAGCC AGGAGATGGACAGGAGCCTTCTCACAGAGGGGAGAAGCCAGCCCCTGGCCCCTCACC TTCTCTTATCCGGTGTCTGCCAGTCCCAGTCCAGTCCCACCTCGCCCCTAAGAC CCGCCCTTACCCCAGCCCTCCCAGCTTCTCCTTGTCTGGCTGCTGGCACCCTATG GAGGGGGCTGCATACCCCAGCCCTTGGAGATCCCGATGCCCTTACGGTCCAGAAGCTCTT GAGCAAATATTTGGCGGCGCCTGGAGCTGAGACCGTGGGTGGTGGGGGCTGGACCAAG GCTGCCTGGCCAGGCGGCTGCCGCTTAGCTGGGCTGAGCTTTACAAGCGCCNGCATTCC TGCCGGCTGTGCCGGCCGCGCTGCTCCGCGCCCGCAGGATGACTCAGCCAGAGCCAGA GAGCTTGGGCCCTGGGACGCTGGGTCCCGGAGCAGGAGGAGAACGAACCTTACCGCCC CTGGGGCGTGGAGCGTTAAGGAGATCCTACAGGAGGCCCGGTCTCGTGGAGGGGAGGA GCCAGCCCCAACCTTGGGGAGAAAGACTTAGTACCACCGCCGGTCTCCACCAATCAT TACCCATGGTCCCCCTGCCTTCGATGCCCGCCGCCAAGAACCCAGGGCCCAGACGA AGCCTTCAAGGCCCGGGGCCCCCAATGGGGAACCCACCTCTGGAAGGGGGGAAAT AAGATAAAGCCCCAGGTTTAGGAGCCCGCT</pre>
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	BC009386
<b>Insert Size:</b>	4400 bp
<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>	no
<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="#">BC009386.2</a> , <a href="#">AAH09386.1</a>

RefSeq Size: 4390 bp

RefSeq ORF: 3681 bp

Locus ID: 6522

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]