

## Product datasheet for **SC125896**

### AE2 (SLC4A2) (BC010069) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AE2 (SLC4A2) (BC010069) 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 BC010069 edited

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GGGGTGGGCACGGGGCAGTCGTCGGGAGCGCGAGTGCGCCGGAGGACGGGGAGAGACC
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CACGGTGGTCTTGTGGGCTGCGTGGAGTTCTCTCCCGCCCCACCATGGCCTTTGTGCG  
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AAAAAAAAAAAAAAAA

<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for BC010069 unedited CCGCGGTGCGGATTTGTAATACGACTTACTATAGGGCGGACCGGAATTCGCACGAGGGG GTGGGCACGGGGCAGTCGTCGGGAGCGCGAGTGCGCCGGAGGACGGGGAGAGACCCCG AGACCCCGGGGGCACGAAGTCCAGAGCGAGCGGGTTATGCCTCCGCTCGTTGCCCTGAA AGCCGCAGCGACAGCGAAAAGGGCTAAGATTCGGCCATGAGCAGCGCCCTCGGCGCCCC GCCAAGGGCGCAGATTCTTTCTGTACGCCAGAGCCAGAGAGCTTGGGCCCTGGGACGCT GGGTTCGCCGAGCAGGAGGAAGACGAACCTCACCGCACCTGGGGGTGGAGCGGTTGAG GAGATCCTACAGGAGCCGGGTCTCGTGAGGGGAGGAGCCAGGCCGAGCTATGGGGAG GAAGACTTTGAGTACCACCGCCAGTCTCCACCATCCATCACCCACTGTCCACCACT GCCCACAGGAGGCGACTCCTCGGGCCTCAAAGGGGCCAGGCTGGAACCCANGTGGA GGAGGGCGAGGCGGAGGCGGTGGCGGTGGCCAGTGGCACTGCAGGGGGTGACGACGGGG TGCCTCGGGGCGCCCCCTGCCAAAGCCAGCCTGGGCACCGCAGCTACAACCTTCAGGA GAGGAGGCGCATCGGGAGCATGACTGGGGCTGAGCAGGCACTGCTGCCCGGGTCCCACG GATGAGATTGAGGCCAGACGCTGGCCACGGCCACCTANACCTCATGAAGATCACCGG TTTGAAGACGTTCTGGGGTGCCGCGGCCCTTGGTGCGGGAAGAAGCCAAAGTTCCCCA CAGAGTGCCGAAAAAGGCGGGAGCCTGGCCCCACACCTCGGGGCCGAACCCCGGG
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	BC010069
<b>OTI Disclaimer:</b>	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).
<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="#">BC010069.2</a> , <a href="#">AAH10069.1</a>
<b>RefSeq Size:</b>	3796 bp
<b>Locus ID:</b>	6522
<b>Cytogenetics:</b>	7q36.1
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	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]