

## Product datasheet for **SC102099**

### ENSA (AF067170) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ENSA (AF067170) Human Untagged Clone
Tag:	Tag Free
Symbol:	ENSA
Synonyms:	ARPP-19e
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC102099 sequence for AF067170 edited (data generated by NextGen Sequencing) ATGTCCCAGAAACAAGAAGAAGAGAACCCTGCGGAGGAGACCGGCGAGGAGAAGCAGGAC ACGCAGGAGAAAAGAAGGTATTCTGCCTGAGAGAGCTGAAGAGGCAAAGCTAAAGGCCAAA TACCCAAGCCTAGGACAAAAGCCTGGAGGCTCCGACTTCCTCATGAAGAGACTCCAGAAA GGGCAAAGTACTTTGACTCAGGAGACTACAACATGGCCAAAGCCAAGATGAAGAATAAG CAGCTGCCAAGTGCAGGACCAGACAAGAACCTGGTGACTGGTGATCACATCCCCACCCCA CAGGATCTGCCCCAGAGAAAGTCTCGCTCGTCACCAGCAAGCTTGCGGGGTAA
	Clone variation with respect to AF067170.1 279 c=>t



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for AF067170 unedited</p> <pre>AATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCAGCAGCGCAGGTTGTCCC CGTTTCCCCTCCCCTTCCCTTCTCCGGTTGCCTTCCCGGGCCCCTTACACTCCACAGTC CCGGTCCC GCCATGTCCCAGAAACAAGAAGAAGAGAACCTGCGCTGGAGACCGGGCAGG AGAAGCAGGACACGCAGGAGAAAGAAGTATTCTGCCTGAGAGAGCTGAAGAGGCAAAGC TAAAGGCCAAATACCCAAGCCTAGGACAAAAGCCTGGAGGCTCCGACTTCTCATGAAGA GACTCCAGAAAGGGCAAAGTACTTTGACTCAGGAGACTACAACATGGCCAAAGCCAAGA TGAAGAATAAGCAGCTGCCAAGTGCAGGACCAGACAAGAACCTGGTGACTGGTGATCACA TCCCCACCCACAGGATCTGCCCCAGAGAAAGTCTCGCTCGTACCAGCAAGCTTGCGG GGTAACCTGAGCCCCCTCTCTCCCCTTCTCAACCACTGGACGTTTATATATTATAGG CAGGGATGAAATGGGCACCTAGTCAGATCTTCTCAGCTTGCTAGCCAGAAATGACTGTGA TTCTGCTGGGGCTGCTGAGAAGTAATGTANGTTGAAAAGGGGCTCTAAGTTTATTTAT TTCGTTAGATTGACACTCCACACACTCCCTGTAGTCCAGGTAGGGCCANAAATAGGAA AGGCTANGATTGGGATATGCTGCANATGCTTTTTTTGTGTGAGAACTGGAGAGATGTGA TTTCTCCTTTTGGGAGAGATGTCCANNATTGATTANGCTGAGCCTTGGGAATAGTTTGG CAGGTTAACATNCCAGGCTACCTAACGTANNTGAAAAGTANNATGATGAGACAATGTTCT TGCTCTTAGAGGTCTGTCTTAGCTGTATTGCTCAT</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for AF067170 unedited</p> <pre>NGGTACGACTATGNNACCGCGCCGCATNCTANGATCGAGTTTTTTTTTTTTTTTTTTTTT TTTTTATTTTTTTTTTTTTTTTTTTGAAAAAACGTACAAAATTATATATATTTTATATAT ATAATAACATGACATATCTATGTACAACATGGCTGGGACAGTTGAAGAACTATACAATG GTGTTCCAGCATTTTCCCCTTCCCAGATGGACTTAAAGGATGACAGCATGAGGAAATGGAG CAAGAAACACAAAATTATATACAATTACAAGTACAGTCAAGGAGTTTGGGGACCAGGG AGTCCAGGGATCCTGCTCTCTCCATTCTCTCACCACCTTTCTCCTATCCAATTTGAA TGACAGCCTGAACACTGAATGGCCAGTCAGGAGAAAGGCATATACACACCTCATCCCCC ACATGCACATCAGCAAGTCTATCAGTCATTCTCATTGGGCCAAATGTTTGGCATATCAA ATTTGTGATGTGAGAGGGCAAGAGGATTACAGAATCTTGCTCTCTTGAGCATTAGTTCTC ACCCTGGTCTCTCTGTACATAACTAGCAAGTTGCGTTCAATAAAATCTAGCCAAGCTGG TGGTAACTAGATTGAAGATGCTGGTCACCTGCAACCCCTTCTCCACCTGTTTCATGAGT CAGCATGGCTACCTCTCCTCATGATAAAAAGAGCTGGGTTGCTGAATTCTGGGGATGCAGA GATTTTTTAGTCTTTCTCTCTTCTCCCTAACCACTTTCCCCAGCTTCTCCAGTGAA TAATCTCCTAAGACCTGTTTCTCCACCCTGCAGAATACTTACCCCAGGGGCTAGCTCAG TTAACCCCTCTCTCTTCTCCTAACCAATATACCTGGCATCAGACTGCATTTGGAACAAGGG TCCAACATGTGCTGACTG</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	AF067170
<b>Insert Size:</b>	2750 bp
<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).

**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:** [AF067170.1](#), [AAD32454.1](#)

**RefSeq Size:** 2520 bp

**RefSeq ORF:** 2520 bp

**Locus ID:** 2029

**Cytogenetics:** 1q21.3

**Domains:** endosulfine

**Protein Families:** Druggable Genome

**Gene Summary:** The protein encoded by this gene belongs to a highly conserved cAMP-regulated phosphoprotein (ARPP) family. This protein was identified as an endogenous ligand for the sulfonylurea receptor, ABCC8/SUR1. ABCC8 is the regulatory subunit of the ATP-sensitive potassium (KATP) channel, which is located on the plasma membrane of pancreatic beta cells and plays a key role in the control of insulin release from pancreatic beta cells. This protein is thought to be an endogenous regulator of KATP channels. In vitro studies have demonstrated that this protein modulates insulin secretion through the interaction with KATP channel, and this gene has been proposed as a candidate gene for type 2 diabetes. At least eight alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2008]