

Product datasheet for **RC209655**

ENSA (NM_207168) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ENSA (NM_207168) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: ENSA
Synonyms: ARPP-19e
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC209655 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCCAGAAACAAGAAGAAGAGAACCCTGCGGAGGAGACCGGCGAGGAGAAGCAGGACACGCAGGAGA
AAGAAGGTATTCTGCCTGAGAGACTGAAGAGGCAAAGCTAAAGGCCAAATACCCAAGCCTAGGACAAAA
GCCTGGAGGCTCCGACTTCTCATGAAGAGACTCCAGAAAGGGGTATGGGCATAGTCTCTTACCCTCTT
TCTTTGGAGCTAAAGGAGTTCTTGAATGAAGTCTGTAGAGTTCTACTGGATCCTTTCTGGAGTTT
TGTTGTTGAACAGAAGTAGAGGCAATTTGAAATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC209655 protein sequence
Red=Cloning site Green=Tags(s)
MSQKQEEENPAEETGEEKQDTQEKEGILPERAEEAKLKAKYPSLGQKPGGSDFLMKRLQKGVWIVSYPL
SLELKEVLRMKSVEVLLDPFLEVLLLNRSRGEFEI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6556_g11.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_207168

ORF Size: 315 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_207168.1](#), [NP_997051.1](#)

RefSeq Size: 771 bp

RefSeq ORF: 318 bp

Locus ID: 2029

UniProt ID: [O43768](#)

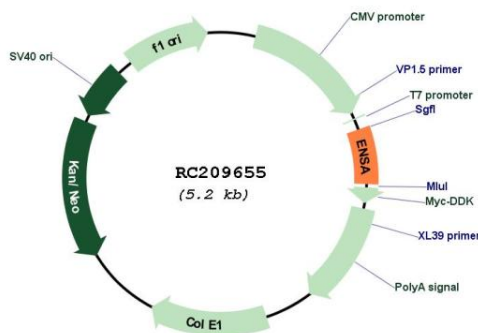
Cytogenetics: 1q21.3

Protein Families: Druggable Genome

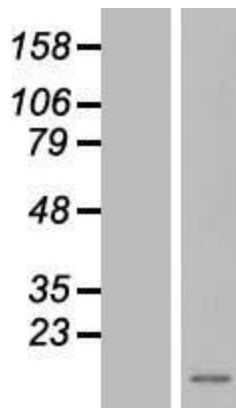
MW: 12 kDa

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]

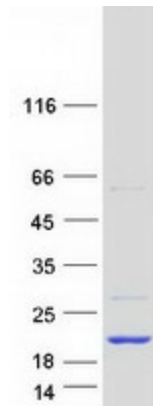
Product images:



Circular map for RC209655



Western blot validation of overexpression lysate (Cat# [LY404060]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209655 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ENSA protein (Cat# [TP309655]). The protein was produced from HEK293T cells transfected with ENSA cDNA clone (Cat# RC209655) using MegaTran 2.0 (Cat# [TT210002]).