

## Product datasheet for **RG220497**

### ENSA (NM\_207045) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ENSA (NM\_207045) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** ENSA  
**Synonyms:** ARPP-19e  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG220497 representing NM\_207045  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGGTGGTCTTGGGTGTGATGTGTGTTATTGGTTTGTAGAGGACACGCAGGAGAAAGAAGGTATTC  
TGCCTGAGAGAGCTGAAGAGGCAAAGCTAAAGGCCAAATACCCAAGCCTAGGACAAAAGCCTGGAGGCTC  
CGACTTCCTCATGAAGAGACTCCAGAAAGGGGATTATAAATCATTACATTGGAGTGTGCTTCTCTGTGCG  
GATGAAATGCAAAAGTACTTTGACTCAGGAGACTACAACATGGCCAAAGCCAAGATGAAGAATAAGCAGC  
TGCCAAGTGCAGGACCAGACAAGAACCTGGTGACTGGTGATCACATCCCCACCCACAGGATCTGCCCA  
GAGAAAGTCCTCGCTCGTCACCAGCAAGCTTGCGGGTGGCCAAGTTGAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG220497 representing NM\_207045  
Red=Cloning site Green=Tags(s)  
MAGGLGCDVCYWFVEDTQEKEGILPERAEEAKLKAKYPSLGQKPGSDFLMKRLQKGDYKSLHWSVLLCA  
DEMQKYFDSGDYNMAKAKMKNKQLPSAGPDKNLVTGDHIPTPQDLPQRKSSSLVTSKLAGGQVE

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

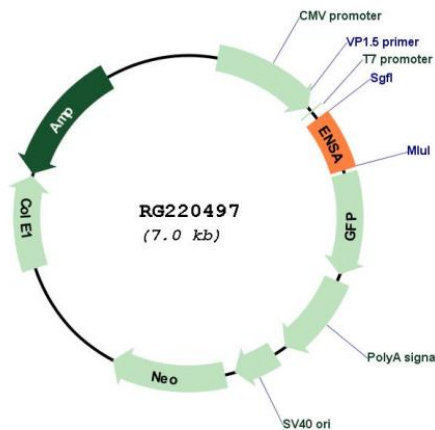


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Cloning Scheme:



Plasmid Map:



ACCN:

NM\_207045

ORF Size:

399 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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="#">NM_207045.2</a>
<b>RefSeq Size:</b>	1164 bp
<b>RefSeq ORF:</b>	402 bp
<b>Locus ID:</b>	2029
<b>UniProt ID:</b>	<a href="#">O43768</a>
<b>Cytogenetics:</b>	1q21.3
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<p>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]</p>