

Product datasheet for RG201350

ENSA (NM_004436) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

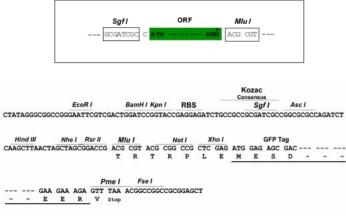
Product Type:	Expression Plasmids
Product Name:	ENSA (NM_004436) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ENSA
Synonyms:	ARPP-19e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	<pre>>RG201350 representing NM_004436 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGTCCCAGAAACAAGAAGAAGAAGAACCCTGCGGAGGAGACCGGCGAGGAGAAGCAGGACACGCAGGAGA AAGAAGGTATTCTGCCTGAGAGAGACTGAAGAGGCAAAGCTAAAGGCCAAATACCCAAGCCTAGGACAAAA GCCTGGAGGCTCCGACTTCCTCATGAAGAGACTCCAGAAAGGGCAAAAGTACTTTGACTCAGGAGACTAC AACATGGCCAAAGCCAAGATGAAGAATAAGCAGCTGCCAAGTGCAGGACCAGACAAGAACCTGGTGACTG GTGATCACATCCCCACCCCA
	ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA
Protein Sequence:	<pre>>RG201350 representing NM_004436 Red=Cloning site Green=Tags(s)</pre>
	MSQKQEEENPAEETGEEKQDTQEKEGILPERAEEAKLKAKYPSLGQKPGGSDFLMKRLQKGQKYFDSGDY NMAKAKMKNKQLPSAGPDKNLVTGDHIPTPQDLPQRKSSLVTSKLAGGQVE
	TRTRPLE - GFP Tag - V
Restriction Sites:	Sgfl-Mlul



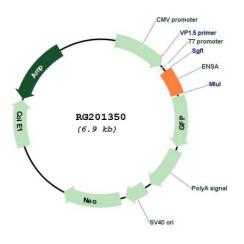
This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2022 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Cloning Scheme:





Plasmid Map:



ACCN:	NM_004436
ORF Size:	363 bp

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2022 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Sevent Se

OTI Disclaimer:	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 <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery. 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. <u>More info</u>
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 004436.4</u>
RefSeq Size:	1252 bp
RefSeq ORF:	366 bp
Locus ID:	2029
UniProt ID:	<u>O43768</u>
Cytogenetics:	1q21.3
Domains:	endosulfine
Protein Families:	Druggable Genome

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2022 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

ENSA (NM_004436) Human Tagged ORF Clone – RG201350

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]

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2022 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US