

Product datasheet for RC205710L3

OriGene Technologies, Inc.

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GTP binding protein era homolog (ERAL1) (NM_005702) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: GTP binding protein era homolog (ERAL1) (NM 005702) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: GTP binding protein era homolog

Synonyms: CEGA; ERA; ERA-W; ERAL1A; ERAL1B; H-ERA; HERA-A; HERA-B; PRLTS6

Mammalian Cell

Selection:

Puromycin

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this ci

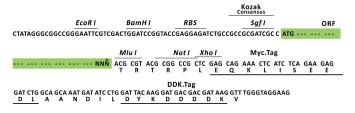
Sequence:

The ORF insert of this clone is exactly the same as(RC205710).

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_005702

ORF Size: 1311 bp





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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: <u>NM 005702.2</u>

 RefSeq Size:
 1856 bp

 RefSeq ORF:
 1314 bp

 Locus ID:
 26284

 UniProt ID:
 O75616

 Cytogenetics:
 17q11.2

MW: 48.4 kDa

Gene Summary: The protein encoded by this gene is a GTPase that localizes to the mitochondrion. The

encoded protein binds to the 3' terminal stem loop of 12S mitochondrial rRNA and is required for proper assembly of the 28S small mitochondrial ribosomal subunit. Deletion of this gene has been shown to cause mitochondrial dysfunction, growth retardation, and apoptosis. Several transcript variants encoding different isoforms have been found for this

gene. [provided by RefSeq, Dec 2015]