

Product datasheet for RC213956L3

OriGene Technologies, Inc.

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p114RhoGEF (ARHGEF18) (NM_015318) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: p114RhoGEF (ARHGEF18) (NM_015318) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: p114RhoGEF

Synonyms: P114-RhoGEF; p114RhoGEF; RP78; SA-RhoGEF

Mammalian Cell

Selection:

Puromycin

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

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

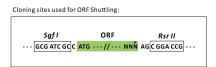
ORF Nucleotide

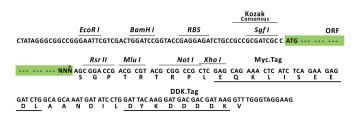
The ORF insert of this clone is exactly the same as(RC213956).

Sequence:

Restriction Sites: Sgfl-Rsrll

Cloning Scheme:





st The last codon before the Stop codon of the ORF.

ACCN: NM_015318

ORF Size: 3045 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 015318.3</u>

 RefSeq Size:
 5252 bp

 RefSeq ORF:
 3048 bp

 Locus ID:
 23370

 UniProt ID:
 Q6ZSZ5

 Cytogenetics:
 19p13.2

Domains: RhoGEF, PH

MW: 114.1 kDa

Gene Summary: Rho GTPases are GTP binding proteins that regulate a wide spectrum of cellular functions.

These cellular processes include cytoskeletal rearrangements, gene transcription, cell growth and motility. Activation of Rho GTPases is under the direct control of guanine nucleotide exchange factors (GEFs). The protein encoded by this gene is a guanine nucleotide exchange factor and belongs to the Rho GTPase GEF family. Family members share a common feature, a Dbl (DH) homology domain followed by a pleckstrin (PH) homology domain. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by

RefSeq, Nov 2018]