

Product datasheet for RC217782L3

OriGene Technologies, Inc.

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DROSHA (NM_001100412) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: DROSHA (NM_001100412) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: DROSHA

Synonyms: ETOHI2; HSA242976; RANSE3L; RN3; RNASE3L; RNASEN

Mammalian Cell Puromycin

Selection:

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

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

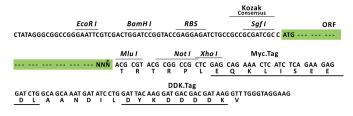
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC217782).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_001100412

ORF Size: 4011 bp





DROSHA (NM_001100412) Human Tagged Lenti ORF Clone - RC217782L3

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 001100412.1</u>

RefSeq Size: 5389 bp
RefSeq ORF: 4014 bp
Locus ID: 29102
UniProt ID: Q9NRR4
Cytogenetics: 5p13.3

MW: 155.2 kDa

Gene Summary: This gene encodes a ribonuclease (RNase) III double-stranded RNA-specific ribonuclease and

subunit of the microprocessor protein complex, which catalyzes the initial processing step of microRNA (miRNA) synthesis. The encoded protein cleaves the stem loop structure from the primary microRNA (pri-miRNA) in the nucleus, yielding the precursor miRNA (pre-miRNA), which is then exported to the cytoplasm for further processing. In a human cell line lacking a functional copy of this gene, canonical miRNA synthesis is reduced. Somatic mutations in this gene have been observed in human patients with kidney cancer. [provided by RefSeq, Sep

2016]