

## Product datasheet for RC230145L4

#### OriGene Technologies, Inc.

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# Asparagine synthetase (ASNS) (NM\_001178077) Human Tagged Lenti ORF Clone

### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** Asparagine synthetase (ASNS) (NM\_001178077) Human Tagged Lenti ORF Clone

Tag: mGFP

Symbol: Asparagine synthetase

Synonyms: ASNSD; TS11

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

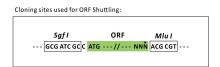
E. coli Selection: Chloramphenicol (34 ug/mL)

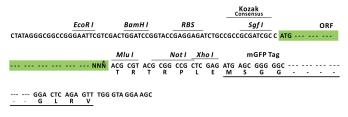
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC230145).

Sequence:

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 



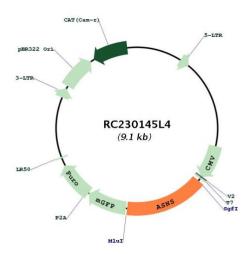


<sup>\*</sup> The last codon before the Stop codon of the ORF.





#### Plasmid Map:



**ACCN:** NM\_001178077

ORF Size: 1434 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

**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 001178077.1</u>, <u>NP 001171548.1</u>

RefSeq Size: 1709 bp RefSeq ORF: 1437 bp



### Asparagine synthetase (ASNS) (NM\_001178077) Human Tagged Lenti ORF Clone - RC230145L4

Locus ID: 440

 UniProt ID:
 P08243

 Cytogenetics:
 7q21.3

**Protein Families:** Druggable Genome

**Protein Pathways:** Alanine, aspartate and glutamate metabolism, Metabolic pathways, Nitrogen metabolism

MW: 54.8 kDa

**Gene Summary:** The protein encoded by this gene is involved in the synthesis of asparagine. This gene

complements a mutation in the temperature-sensitive hamster mutant ts11, which blocks

progression through the G1 phase of the cell cycle at nonpermissive temperature. Alternatively spliced transcript variants have been described for this gene. [provided by

RefSeq, May 2010]