

## Product datasheet for RC217587L4

### Argininosuccinate Lyase (ASL) (NM\_001024944) Human Tagged Lenti ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Argininosuccinate Lyase (ASL) (NM_001024944) Human Tagged Lenti ORF Clone |
| Tag:                      | mGFP  |
| Symbol:                   | Argininosuccinate Lyase   |
| Synonyms:                 | ASAL  |
| Mammalian Cell Selection: | Puromycin   |
| Vector:                   | pLenti-C-mGFP-P2A-Puro (PS100093)   |
| E. coli Selection:        | Chloramphenicol (34 ug/mL)  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC217587).            |
| Restriction Sites:        | SgfI-RsrII  |
| Cloning Scheme:           |   |

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF.

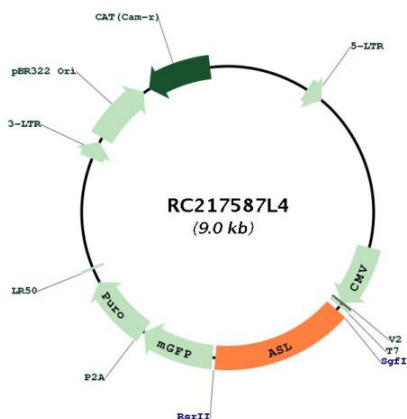
|           |              |
|-----------|--------------|
| ACCN:     | NM_001024944 |
| ORF Size: | 1332 bp      |



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|                               |  |
|-------------------------------|--|
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>   |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.   |
| <b>Components:</b>            | 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).   |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>  |
| <b>RefSeq:</b>                | <a href="#">NM_001024944.1</a>   |
| <b>RefSeq Size:</b>           | 2001 bp  |
| <b>RefSeq ORF:</b>            | 1335 bp  |
| <b>Locus ID:</b>              | 435  |
| <b>UniProt ID:</b>            | <a href="#">P04424</a>   |
| <b>Cytogenetics:</b>          | 7q11.21  |
| <b>Protein Pathways:</b>      | Alanine, aspartate and glutamate metabolism, Arginine and proline metabolism, Metabolic pathways   |
| <b>MW:</b>                    | 49.3 kDa   |
| <b>Gene Summary:</b>          | This gene encodes a member of the lyase 1 family. The encoded protein forms a cytosolic homotetramer and primarily catalyzes the reversible hydrolytic cleavage of argininosuccinate into arginine and fumarate, an essential step in the liver in detoxifying ammonia via the urea cycle. Mutations in this gene result in the autosomal recessive disorder argininosuccinic aciduria, or argininosuccinic acid lyase deficiency. A nontranscribed pseudogene is also located on the long arm of chromosome 22. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008] |

Product images:



Circular map for RC217587L4