

Product datasheet for RC206858L3

Ornithine Decarboxylase (ODC1) (NM_002539) Human Tagged Lenti ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Ornithine Decarboxylase (ODC1) (NM_002539) Human Tagged Lenti ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Ornithine Decarboxylase |
| Synonyms: | BABS; NEDBA; NEDBIA; ODC |
| Mammalian Cell Selection: | Puromycin |
| Vector: | pLenti-C-Myc-DDK-P2A-Puro (PS100092) |
| E. coli Selection: | Chloramphenicol (34 ug/mL) |
| ORF Nucleotide Sequence: | The ORF insert of this clone is exactly the same as(RC206858). |
| Restriction Sites: | SgfI-MluI |
| Cloning Scheme: | |

Cloning sites used for ORF Shuttling:



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

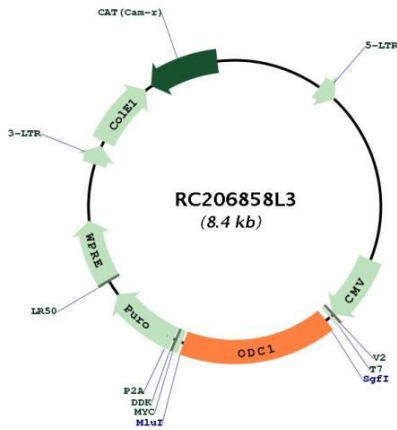
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| ACCN: | NM_002539 |
| ORF Size: | 1383 bp |



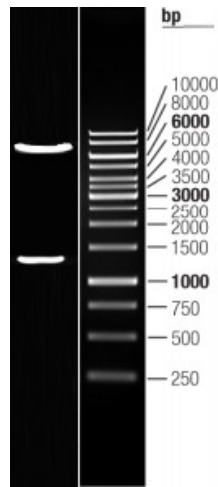
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| OTI Disclaimer: | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), 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: | <ol style="list-style-type: none">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: | NM_002539.1 |
| RefSeq Size: | 2307 bp |
| RefSeq ORF: | 1386 bp |
| Locus ID: | 4953 |
| UniProt ID: | P11926 |
| Cytogenetics: | 2p25.1 |
| Domains: | Orn_Arg_deC_N |
| Protein Families: | Druggable Genome |
| Protein Pathways: | Arginine and proline metabolism, Glutathione metabolism, Metabolic pathways |
| MW: | 51.1 kDa |
| Gene Summary: | This gene encodes the rate-limiting enzyme of the polyamine biosynthesis pathway which catalyzes ornithine to putrescine. The activity level for the enzyme varies in response to growth-promoting stimuli and exhibits a high turnover rate in comparison to other mammalian proteins. Originally localized to both chromosomes 2 and 7, the gene encoding this enzyme has been determined to be located on 2p25, with a pseudogene located on 7q31-qter. Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Dec 2013] |

Product images:



Circular map for RC206858L3



Double digestion of RC206858L3 using SgfI and MluI