

## Product datasheet for **RC205622L4V**

### **ECH1 (NM\_001398) Human Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | ECH1 (NM_001398) Human Tagged ORF Clone Lentiviral Particle  |
| Symbol:                   | ECH1   |
| Synonyms:                 | HPXEL  |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-mGFP-P2A-Puro (PS100093)  |
| Tag:                      | mGFP   |
| ACCN:                     | NM_001398  |
| ORF Size:                 | 984 bp   |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC205622).   |
| 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. <a href="#">More info</a> |
| OTI Annotation:           | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.   |
| RefSeq:                   | <a href="#">NM_001398.2</a> , <a href="#">NP_001389.2</a>  |
| RefSeq Size:              | 1276 bp  |
| RefSeq ORF:               | 987 bp   |
| Locus ID:                 | 1891   |
| UniProt ID:               | <a href="#">Q13011</a>   |
| Cytogenetics:             | 19q13.2  |
| Domains:                  | ECH  |
| MW:                       | 35.8 kDa   |


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**Gene Summary:**

This gene encodes a member of the hydratase/isomerase superfamily. The gene product shows high sequence similarity to enoyl-coenzyme A (CoA) hydratases of several species, particularly within a conserved domain characteristic of these proteins. The encoded protein, which contains a C-terminal peroxisomal targeting sequence, localizes to the peroxisome. The rat ortholog, which localizes to the matrix of both the peroxisome and mitochondria, can isomerize 3-trans,5-cis-dienoyl-CoA to 2-trans,4-trans-dienoyl-CoA, indicating that it is a delta3,5-delta2,4-dienoyl-CoA isomerase. This enzyme functions in the auxiliary step of the fatty acid beta-oxidation pathway. Expression of the rat gene is induced by peroxisome proliferators. [provided by RefSeq, Jul 2008]