

## Product datasheet for **SC318979**

### **ECE1 (NM\_001113349) Human Untagged Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                      |
| Product Name:             | ECE1 (NM_001113349) Human Untagged Clone |
| Tag:                      | Tag Free                                 |
| Symbol:                   | ECE1                                     |
| Synonyms:                 | ECE                                      |
| Mammalian Cell Selection: | Neomycin                                 |
| Vector:                   | pCMV6-Entry (PS100001)                   |
| E. coli Selection:        | Kanamycin (25 ug/mL)                     |



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**Fully Sequenced ORF:** >SC318979 representing NM\_001113349.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGAGGCGCTGAGGGAGTCCGTGCTGCATTTGGCCTTGCAGATGTCGACGTACAAGCGGGCCACGCTG
GACGAGGAGGACCTGGTGGACTCGCTCCGAGGGCGACGCATACCCCAACGGCCTGCAGGTGAACCTC
CACAGCCCCGGAGTGGCCAGAGGTGCTGGGCTGCACGGACCCAGGTGGAGAAGCGGCTGGTGGTGTG
GTGGTACTTCTGGCGGCAGGACTGGTGGCTGCTTGGCAGCACTGGGCATCCAGTACCAGACAAGATCC
CCCTCTGTGTGCCTGAGCGAAGCTTGTGTCTCAGTGACCAGCTCCATCTTGAGCTCCATGGACCCACA
GTGGACCCCTGCCATGACTTCTCAGCTACGCCTGTGGGGCTGGATCAAGGCCAACCCAGTCCCTGAT
GGCCACTCAGCTGGGGACCTCAGCAACCTCTGGGAACACAACCAAGCAATCATCAAGCACCTCCTC
GAAAATCCACGGCCAGCGTGAGCGAGGCAGAGAGAAAGCGCAAGTATACTACCGTGCCTGCATGAAC
GAGACCAGGATCGAGGAGCTCAGGGCCAAACCTCTAATGGAGTTGATTGAGAGGCTCGGGGCTGGAAC
ATCACAGTCCCTGGGCCAAGGACAACCTCCAGGACACCTGCAGGTGGTCACCGCCACTACCGCACC
TCAACCTTCTTCTGTCTATGTCAAGTCCGATTCCAAGAAGTCCAACAGCAACGTGATCCAGGTGGAC
CAGTCTGGCCTGGGCTTGCCTCGAGAGACTATTACCTGAACAAAAGTGAACGAGAAGGTGCTGACC
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CAGATGCAGCAGATCTTGGACTTGGAGACGGCACTGGCCAACATCACCATCCCACAGGAGAAGCGCCGT
GATGAGGAGCTCATCTACCACAAAGTGACGGCAGCCGAGCTGCAGACCTTGGCACCCGCCATCAACTGG
TTGCCTTTTCTCAACACCATCTTCTACCCCGTGGAGATCAATGAATCCGAGCCTATTGTGGTCTATGAC
AAGGAATACCTTGAGCAGATCTCCACTCTCATCAACACCACCGACAGATGCCTGCTCAACAACTACATG
ATCTGGAACCTGGTGGGAAAACAAGCTCCTTCTTGGACGCGCTTTCAGGACGCGGATGAGAAGTTC
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AACAACTGGGCTTGGCTTGGGCCCATGTTTGTCAAAGCAACCTTCGCCGAGGACAGCAAGAGCATA
GCCACCGAGATCATCCTGGAGATTAAGAAGGCATTTGAGGAAAGCCTGAGCACCTGAAGTGGATGGAT
GAGGAAACCCGAAAATCAGCCAAGGAAAAGGCCGATGCCATCTACAACATGATAGGATACCCCAACTTC
ATCATGGATCCCAAGGAGCTGGACAAAGTGTAAATGACTACACTGCAGTTCAGACCTCTACTTTGAA
AATGCCATGCGGTTTTTCAACTTCTCATGGAGGTCAGTCCGATCAGCTCAGGAAAGCCCCAACAGA
GATCAGTGGAGCATGACCCGCCATGGTGAACGCCTACTACTCGCCACCAAGAATGAGATTGTGTTT
CCGGCCGGGATCCTGCAGGCACCTTACACACGCTCCTCACCAAGGCCTTAAACTTTGGTGGCATA
GGTGTCTGCTGGGCCATGAGCTGACTCATGCTTTTGTGATCAAGGACGGGAGTATGACAAGGACGGG
AACCTCCGGCCATGGTGGAGAAGTCACTCCGTGGAGGCCTTCAAGCGTCAGACCGAGTGCATGGTAGAG
CAGTACAGCAACTACAGCGTGAACGGGGAGCCGGTGAACGGGCGGCACACCCTGGGGGAGAACATCGCC
GACAACGGGGGTCTCAAGGCGGCCTATCGGGCTTACCAGAAGTGGGTGAAGAAGAAGCGGGCTGAGCAC
TCGCTCCCCACCTGGGCTCACCAATAACCAGCTCTTCTTCTGGGCTTTCACAGGTCTGGTGTCTCC
GTCCGCACACCTGAGAGCTCCCACGAAGGCCTCATCACCAGTCCCACAGCCCTCTCGCTTCCGGGTG
ATCGGCTCCCTCTCAATTCGAAGGATCTCAGAACACTCCGCTGCCACCTGGCTCACCCATGAAC
CGCCTCACAAGTGCAGTCTGGTAA
ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

**Restriction Sites:** SgfI-MluI

**Plasmid Map:** □

**ACCN:** NM\_001113349

**Insert Size:** 2304 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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:** [NM\\_001113349.1](#)

**RefSeq Size:** 5105 bp

**RefSeq ORF:** 2304 bp

**Locus ID:** 1889

**UniProt ID:** [P42892](#)

**Cytogenetics:** 1p36.12

**Protein Families:** Druggable Genome, Protease, Transmembrane

**MW:** 87 kDa

**Gene Summary:** The protein encoded by this gene is involved in proteolytic processing of endothelin precursors to biologically active peptides. Mutations in this gene are associated with Hirschsprung disease, cardiac defects and autonomic dysfunction. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.[provided by RefSeq, Sep 2009]  
 Transcript Variant: This variant (2) differs in the 5' UTR and coding region, compared to variant 1, resulting in a shorter protein (isoform 2 also known as isoform d) that has a distinct N-terminus, compared to isoform 1.