

## Product datasheet for **RC226140**

### **ECE1 (NM\_001113348) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ECE1 (NM_001113348) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ECE1
Synonyms:	ECE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC226140 representing NM\_001113348  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATGTCGACGTACAAGCGGGCCACGCTGGACGAGGAGGACCTGGTGGACTCGCTCTCCGAGGGCGACG  
 CATACCCCAACGGCCTGCAGGTGAACCTCCACAGCCCCGGAGTGGCCAGAGGTGCTGGGCTGCACGGAC  
 CCAGGTGAGAGAAGCGGCTGGTGGTGTGGTGGTACTTCTGGCGGCAGGACTGGTGGCCTGCTTGGCAGCA  
 CTGGGCATCCAGTACCAGACAAGATCCCCCTCTGTGTGCCTGAGCGAAGCTTGTGTCTCAGTGACCAGCT  
 CCATCTTGAGCTCCATGGACCCACAGTGGACCCCTGCCATGACTTCTTCAGCTACGCTGTGGGGCTG  
 GATCAAGGCCAACCCAGTCCCTGATGGCCACTCACGCTGGGGGACCTTCAGCAACCTCTGGGAACACAAC  
 CAAGCAATCATCAAGCACCTCCTCGAAACTCCACGGCCAGCGTGAGCGAGGCAGAGAGAAAGGCGCAAG  
 TATACTACCGTGGTGCATGAACGAGACCAGGATCGAGGAGCTCAGGGCCAAACCTCTAATGGAGTTGAT  
 TGAGAGGCTCGGGGGCTGGAACATCACAGTCCCTGGGCCAAGGACAACCTCCAGGACACCTGCAGGTG  
 GTCACCGCCCACTACCGACCTCACCTTCTTCTGTCTATGTCAAGTCCGATTCCAAGAACTCCAACA  
 GCAACGTGATCCAGTGGACCAGTCTGGCCTGGGCTTGCCTCGAGAGACTATTACCTGAACAAAATGA  
 AAACGAGAAGGTGCTGACCGGATATCTGAACTACATGGTCCAGCTGGGGAAGCTGCTGGGCGGGGGAC  
 GAGGAGGCCATCCGGCCCGAGTGCAGCAGATCTTGGACTTTGAGACGGCACTGGCCAACATCACCATCC  
 CACAGGAGAAGCGCGTGTGATGAGGAGCTCATCTACCACAAAGTGACGGCAGCCGAGCTGCAGACCTTGGC  
 ACCCGCCATCACTGGTTGCCTTTTCTCAACACCATCTTCTACCCCGTGGAGATCAATGAATCCGAGCCT  
 ATTGTGGTCTATGACAAGGAATACCTTGAGCAGATCTCCACTCTCATCAACACCACCGACAGATGCCTGC  
 TCAACAACACTACATGATCTGGAACCTGGTGCAGAAAACAAGCTCCTTCTTGACCAGCGCTTTCAGGACGC  
 CGATGAGAAGTTTCATGGAAGTCATGTACGGGACCAAGAAGACCTGTCTTCTCGTGGAAAGTTTTGCGTG  
 AGTGACACAGAAAACAACCTGGGCTTTCGCTTGGGCCCATGTTTGTCAAAGCAACCTTCGCCGAGGACA  
 GCAAGAGCATAGCCACCGAGATCATCTGGAGATTAAGAAGGCATTTGAGGAAAGCCTGAGCACCTGAA  
 GTGGATGGATGAGGAAACCCGAAATCAGCCAAGGAAAAGGCCGATGCCATCTACAACATGATAGGATAC  
 CCCAACTTCATCATGGATCCCAAGGAGCTGGACAAAGTGTAAATGACTACACTGCAGTTCCAGACCTCT  
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 GTGTTTCCGGCCGGGATCTGCAGGCACCATTCTACACACGCTCCTCACCAAGGCCTTAACTTTGGTG  
 GCATAGGTGTCGTGCGTGGCCATGAGCTGACTCATGCTTTTGTGATCAAGGACGGGAGTATGACAAGGA  
 CGGAACTCCGGCCATGGTGGAAAGAACTCATCCGTGGAGGCCTCAAGCGTCAGACCGAGTGCATGGTA  
 GAGCAGTACAGCAACTACAGCGTGAACGGGGAGCCGGTGAACGGGCGGCACACCTGGGGGAGAATCG  
 CCGACAACGGGGGTCTCAAGGGCCCTATCGGGCTTACCAAGAACTGGGTGAAGAAGAACGGGGCTGAGCA  
 CTCGCTCCCCACCTGGGCTCACCAATAACCAGCTCTTCTTCTGGGCTTTGCACAGGTCTGGTGTCTCC  
 GTCCGCACACCTGAGAGCTCCCACGAAGGCCTCATCACCAGTCCCCACAGCCCTCTCGCTTCCGGGTCA  
 TCGGCTCCCTCTCAATTCCAAGGAGTTCTCAGAACACTCCGCTGCCACCTGGCTCACCCATGAACCC  
 GCCTACAAGTGCGAAGTCTGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC226140 representing NM\_001113348  
 Red=Cloning site Green=Tags(s)

MMSTYKRATLDEEDLVDSLSEGDAYPNGLQVNFHSPRSQRCWAARTQVEKRLVVLVLLAAGLVACLAA  
 LGIQYQTRSPVCLSEACVSVTSSILSSMDPTVDPCHDFFSYACGGWIKANVPDGHRSRGTFSNLWEHN  
 QAIKHLLENSTASVSEAKAQVYYRACMNETRIEELRAKPLMELIERLGGWNITGPWAKDNFQDTLQV  
 VTAHYRTSPFFSVYVSADSKNSNSNVIQVDQSGGLPSRDYYLNKTENEKVL TGYLNMYVQLGKLLGGGD  
 EEAIRPQMQQILDFETALANITIPQEKRRDEELIYHKVTAELQTLAPAINWLPFLNTIFYPVEINESEP  
 IVVYDKEYLEQISTLINTDRCLLNMYMIWNLVRKTSFSDQRFQDADEKFMVEMYGTTKCTCLPRWKF CV  
 SDTENNLGFALGPMFVKATFAEDSKSIATEIILEIKKAFEEESLTLKWMDEETRSKAKEKADAIYNMIGY  
 PNFIMDPKELDKVFNNDYAVPDL YFENAMRFFNF SWRVTADQLRKAPNRDQWSMTPPMVNAYSPTKNEI  
 VFPAGILQAPFYTRSSPKALNFGGIGVVVGHHEL THAFDDQGREYDKDGNLRPWWKNSVVEAFKRQTECMV  
 EQYSNYSVNGEPVNGRHTLGENIADNGGLKAAYRAYQNWWKNGAEHSLPTLGL TNNQLFFLGFAQVWCS  
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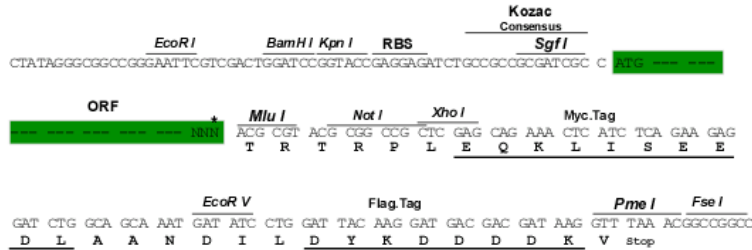
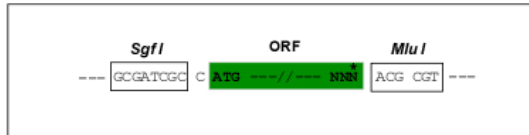
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_001113348

**ORF Size:** 2262 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:** [NM\\_001113348.2](#)

**RefSeq ORF:** 2265 bp

**Locus ID:** 1889

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

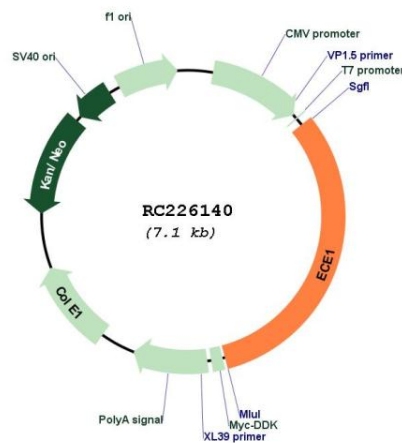
**Cytogenetics:** 1p36.12

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

**MW:** 85.4 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]

### Product images:



Circular map for RC226140