

## Product datasheet for **RG223135**

### **ECE1 (NM\_001397) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ECE1 (NM_001397) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ECE1
Synonyms:	ECE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG223135 representing NM\_001397  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGGGGCGTGTGGCCGCCCGGTGTCCGCCCTGCTGTGCGCGCTGGGGATGTCGACGTACAAGCGGG  
 CCACGCTGGACGAGGAGGACCTGGTGGACTCGCTCTCCGAGGGCGACGCATACCCCAACGCCTGCAGGT  
 GAACCTCCACAGCCCCGGAGTGCCAGAGGTGCTGGGCTGCACGACCCAGGTGGAGAAGCGGCTGGTG  
 GTGTTGGTGGTACTTCTGGCGGCAGGACTGGTGGCCTGCTTGGCAGCACTGGGCATCCAGTACCAGACAA  
 GATCCCCCTCTGTGTGCCTGAGCGAAGCTTGTGTCTCAGTGACCAGCTCCATCTTGAGCTCCATGGACCC  
 CACAGTGGACCCCTGCCATGACTTCTTCAGCTACGCTGTGGGGCTGGATCAAGGCCAACCCAGTCCCT  
 GATGGCCACTCACGCTGGGGACCTTCAGCAACCTCTGGGAACACAACCAAGCAATCATCAAGCACCTCC  
 TCGAAAACCTCCACGGCCAGCGTGAGCGAGGCAGAGAGAAAAGCGCAAGTATACTACCGTGCCTGCATGAA  
 CGAGACCAGGATCGAGGAGCTCAGGGCCAAACCTCTAATGGAGTTGATTGAGAGGCTCGGGGGCTGGAAC  
 ATCACAGGTCCCTGGGCCAAGGACAACCTCCAGGACACCCCTGCAGGTGGTACCGCCCACTACCGCACCT  
 CACCCCTTCTTCTGTCTATGTCACTGCGGATTCCAAGAACTCCAACAGCAACGTGATCCAGGTGGACCA  
 GTCTGGCCTGGGCTTGCCTCGAGAGACTATTACCTGAACAAAACGAAAACGAGAAGGTGCTGACCCGGA  
 TATCTGAACTACATGGTCCAGCTGGGGAAGCTGCTGGGCGGCGGGGACGAGGAGGCCATCCGGCCCCAGA  
 TGCAGCAGATCTTGACTTTGAGACGGCACTGGCAACATCACCATCCCACAGGAGAAGCGCCGTGATGA  
 GGAGCTCATCTACCACAAAGTGACGGCAGCCGAGCTGCAGACCTTGGCACCCGCCATCAACTGGTTGCCCT  
 TTTCTCAACACCATCTTCTACCCCGTGGAGATCAATGAATCCGAGCCTATTGTGGTCTATGACAAGGAAT  
 ACCTTGAGCAGATCTCCACTCTCATCAACACCACCGACAGATGCCTGCTCAACAACATCATGATCTGGAA  
 CCTGGTGCAGAAAACAAGCTCCTTCTTACCAGCGCTTTCAGGACGCGGATGAGAAGTTCATGGAAGTC  
 ATGTACGGGACCAAGAAGACCTGTCTTCTCGCTGGAAGTTTTGCGTGAGTGACACAGAAAAACAACCTGG  
 GCTTTGCGTTGGGCCCATGTTTGTCAAAGCAACCTTCGCCGAGGACAGCAAGAGCATAGCCACCGAGAT  
 CATCCTGGAGATTAAGAAGGCATTTGAGGAAAGCCTGAGCACCCCTGAAGTGGATGGATGAGGAAACCCGA  
 AAATCAGCCAAGGAAAAGGCCGATGCCATCTACAACATGATAGGATACCCCAACTTCATCATGGATCCCA  
 AGGAGCTGGACAAAGTGTAAATGACTACACTGCAGTTCAGACCTCTACTTTGAAAATGCCATGCGGTT  
 TTTCAACTTCTCATGGAGGGTCACTGCCGATCAGCTCAGGAAAGCCCCAACAGAGATCAGTGGAGCATG  
 ACCCCGCCATGGTGAACGCCTACTACTCGCCACCAAGAATGAGATTGTGTTCCGGCCGGGATCCTGC  
 AGGCACCATCTACACAGCTCCTCACCAAGGCCTAAACTTTGGTGGCATAGGTGTCTGTCGTGGGCCA  
 TGAGCTGACTCATGCTTTTGATGATCAAGGACGGGAGTATGACAAGGACGGGAACCTCCGGCCATGGTGG  
 AAGAACTCATCCGTGGAGGCCTCAAGCGTCAGACCGAGTGCATGGTAGAGCAGTACAGCAACTACAGCG  
 TGAACGGGGAGCCGGTGAACGGGCGGCACACCTGGGGGAGAACATCGCCGACAACGGGGGTCTCAAGGC  
 GGCCTATCGGGCTTACCAGAACTGGGTGAAGAAGAACGGGGCTGAGCACTCGTCCCCACCTGGGCCTC  
 ACCAATAACCAGCTCTTCTTCTGGGCTTTGCACAGGTCTGGTGTCCGTCGCGCACACCTGAGAGCTCCC  
 ACGAAGGCCTCATACCGATCCCACAGCCCCTCTCGTTCGGGTTCATCGGCTCCCTCTCCAATTCCAA  
 GGAGTTCTCAGAACACTTCGGCTGCCACCTGGCTCACCCATGAACCCGCTCACAAGTGCGAAGTCTGG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG223135 representing NM\_001397  
 Red=Cloning site Green=Tags(s)

MRGVWPPVVSALLSALGMSTYKRATLDEEDLVDSLSEGDAYPNGLQVNFHSPRSGQRCWAARTQVEKRLV  
 VLVVLLAAGLVACLAALGIQYQTRSPSVCLSEACVSVTSSILSSMDPTVDPCHDFFSYACGGWIKANPVP  
 DGHSRWGTF SNLWEHNQAIKHLLENSTASVSEAERKAQVYRACMNETRIEELRAKPLMELIERLGGWN  
 ITGPWAKDNFQDTLQVTAHYRTSPFFSVYVSADSKNSNSNVIQVDQSGGLPSRDYYLNKTENEKVLTG  
 YLNYMVQLGKLLGGDEEAI R P Q M Q Q I L D F E T A L A N I T I P Q E K R R D E E L I Y H K V T A A E L Q T L A P A I N W L P  
 FLNTIFYPVEINESEPIVYVDKEYLEQISTLINTTDRCLLNMYIWNLVKRTSSFLDQRFQDADEKFMVEV  
 MYGTTKTC L P R W K F C V S D T E N N L G F A L G P M F V K A T F A E D S K S I A T E I I L E I K K A F E E S L S T L K W M D E E T R  
 K S A K E K A D A I Y N M I G Y P N F I M D P K E L D K V F N D Y T A V P D L Y F E N A M R F F N F S W R V T A D Q L R K A P N R D Q W S M  
 T P P M V N A Y S P T K N E I V F P A G I L Q A P F Y T R S S P K A L N F G G I G V V V G H E L T H A F D D Q G R E Y D K D G N L R P W W  
 K N S S V E A F K R Q T E C M V E Q Y S N Y S V N G E P V N G R H T L G E N I A D N G G L K A A Y R A Y Q N W V K N G A E H S L P T L G L  
 T N N Q L F F L G F A Q V W C S V R T P E S S H E G L I T D P H S P S R F R V I G S L S N S K E F S E H F R C P P G S P M N P P H K C E V W

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:

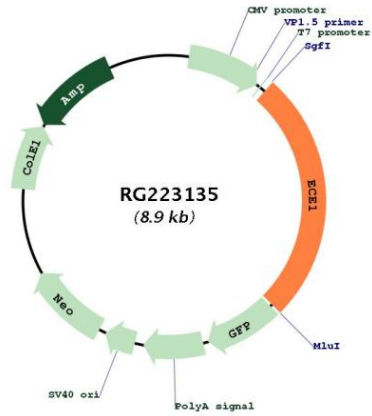


ACCN: NM\_001397

ORF Size: 2310 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<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_001397.3</a>
<b>RefSeq Size:</b>	2409 bp
<b>RefSeq ORF:</b>	2313 bp
<b>Locus ID:</b>	1889
<b>UniProt ID:</b>	<a href="#">P42892</a>
<b>Cytogenetics:</b>	1p36.12
<b>Domains:</b>	Peptidase_M13
<b>Protein Families:</b>	Druggable Genome, Protease, Transmembrane
<b>Gene Summary:</b>	<p>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]</p>

Product images:



Circular map for RG223135