

## Product datasheet for **SC115854**

### **EHD1 (NM\_006795) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	EHD1 (NM_006795) Human Untagged Clone
Tag:	Tag Free
Symbol:	EHD1
Synonyms:	H-PAST; HPAST1; PAST; PAST1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC115854 sequence for NM\_006795 edited (data generated by NextGen Sequencing)

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ATGTTTCAGCTGGGTCAGCAAGGATGCCCGCCGCAAGAAGGAGCCGGAGCTCTTCCAGACG
GTGGCCGAGGGGCTGCCGCAGCTGTACGCGCAGAAGCTGCTACCCCTGGAGGAGCACTAC
CGTTCCACGAGTTCCTACTCGCCCGCGCTGGAGGACGCTGACTTCGACAACAAGCCTATG
GTGCTCCTCGTGGGGCAGTACAGCACGGGCAAGACCACCTTCATCCGACACCTGATCGAG
CAGGACTTCCCGGGGATGCGCATCGGCGCCGAGCCACCACCGACTCCTTCATCGCCGTC
ATGCACGGCCCCACTGAGGGCGTGGTGCCGGGCAACGCGCTCGTGGTGGACCCGCGGCGC
CCCTTCCGCAAGCTCAACGCGTTTGGCAACGCTTCTCAACAGGTTTCATGTGTGCCAG
CTGCCAACCCCGTCTGGACAGCATCAGCATCATCGACACCCCGGGATCCTGTCTGGA
GAGAAGCAGCGGATCAGCAGAGGCTATGACTTTGCAGCCGTCCTGGAGTGGTTCCGCGGAG
CGTGTGGACCGCATCATCTGCTCTTCGACGCCACAAGCTGGACATCTCCGATGAGTTC
TCGGAAGTGATCAAGGCTCTGAAGAACCATGAGGACAAGATCCGCGTGGTGTGAACAAG
GCAGACCAGATCGAGACGCAGCAGCTGATGCGGGTGTACGGGGCCCTCATGTGGTCCCTG
GGCAAGATCATCAACACCCCGAGGTGGTCAGGGTCTACATCGGCTCCTTCTGGTCCCAC
CGCTCCTCATCCCCGACAACCGCAAGCTTTGAGGCCGAGGAGCAGGACCTCTTCAAG
GACATCCAGTCACTGCCCGAAAACGCGCCCTCAGGAAGCTCAATGACCTGATCAAGCGG
GCACGGCTGGCCAAGGTTACGCGCTACATCATCAGCTCCCTCAAGAAAGAGATGCCCAAT
GTCTTTGGTAAAGAGAGCAAAAAGAAAGAGCTGGTGAACAACCTGGGAGAGATCTACCAG
AAGATTGAGCGCGAGCACCAGATCTCCCTGGGGACTTCCCGAGCCTCCGCAAGATGCAG
GAACTCCTGCAGACCCAGGACTTCAGCAAGTTCAGGGCGTGAAGCCCAAGCTGTGGAC
ACGGTGGATGACATGCTGGCCAACGACATCGCGCGGCTGATGGTGTGGTGGCGCAGGAG
GAGTCCCTGATGCCTTCCAGGTGGTCAAGGGCGCGCCTTTGACGGCACCATGAACGGG
CGTTTCGGGCACGGCTACGGCGAGGGGGCCGCGAGGGCATCGACGACGTGGAGTGGGTG
GTGGGCAAGGACAAGCCACCTACGACGAGATTTCTACACGCTGTCCCCTGTCAACGGC
AAGATCACGGGCGCAACGCCAAGAAGGAGATGGTGAAGTCCAAGCTCCCCAACACCGTG
CTAGGGAAGATCTGGAAGCTGGCCGACGTGGACAAGGACGGGCTGCTGGACGACGAGGAG
TTCGCGTGGCCAACCACCTCATCAAGGTCAAGCTGGAGGGCCACGAGCTGCCCGCCGAC
CTGCCCCGCACCTGGTGCCGCCCTCCAAGCGCAGACATGAGTGA
    
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Clone variation with respect to NM\_006795.2  
66 t=>c

**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_006795 unedited
GCATTTTGAATACGACTCACTATAGGGGCGGCCGGAATTCGCACGAGGCCGATTCCC
TGCCCCGGCCGGCCCCGCTCGGCTCCGCACCCCTCGCCCCGCTCTCAGCCGCGCTCTGC
CCCGCAGCAGCCAGCCCCGTGTCGGCAGTATGTTTCAGCTGGGTCAGCAAGGATGCCCGC
CGCAAGAAGGAGCCGGAGCTTCTCCAGACGGTGGCCGAGGGGCTCGGCGAGCTGTACGCG
CAGAAGCTGCTACCCCTGGAGGAGCACTACCGCTTCCACGAGTTCCACTCGCCCCGCGCTG
GAGGACGCTGACTTCGACAACAAGCCTATGGTGTCTCCTCGTGGGGCAGTACAGCACGGGC
AAGACCACCTTTCATCCGACACCTGATCGAGCAGGACTTCCCGGGGATGCGCATCGGGCCC
GAGCCCACCACCGACTCCTTCATCGCCGTCATGCACGGCCCCACTGAGGGCGTGGTGCCG
GGCAACGCGCTCGTGGTGGACCCCGGGCGCCCCTTCCGCAAGCTCAACGCGTTTGGCAAC
GCTTTCCTCAACAGGTTTCATGTGTGCCAGCTGCCAACCCCGTCTGGACAGCATCAGC
ATCATCGACACCCCGGATCCTGTCTGGAGAGAAGCAGCGGATCAGCAGAGGCTATGAC
TTTGCAGCCGCTCGAGTGGTTCGCGGAGCGTGTGGACCGCATATCCTGCTCTTCGAC
GCCCAAGCTGGACATCTNCGATGAGTTCTCGGAAGTATCAAGGCTCTGAAGACCATG
ANNACAGATCCGCGTGGTGTGAACAGGCAGACCANATCGAGACGCANCACTGATGCCG
GNTGTACGGGGCCCTCATGTGGTCCCTGGGGCAGACATCACCCCGCAGTGGGTGAGGG
TCTACTCGCTNCTTTTGGTCCACCCGCTCTATCCCGACACGCAGCTCTTTGAGGCCAAGG
ACAGACCTCTTCAGGACTC
    
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<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_006795 unedited  TATCTTGGCCGCGCCGATTCTANGATCGAGTTT  TTTTTTTTTACCAGTTCAAACCTTTTAAAGCAGGGGAAAAAGTTTTCACTTTTTTTTCCCA  CAGGGGTGAAACAAGCCACTGCAACTTAAACAGGGACTTCCCGGAAAGGACAGGGCCCGC  ATCCATCTAACCTAATACTGTATGGAGGACGGCCTAAGGAAAACAAGGCCAGTTCCTG  CAAACCTCCGAGCAGCGCTGGGGAAAACCTCCCTGAAACCCCGCGGAAAAGCCTGGGGGG  AACCCAGCTGGGGGAACTGGGGCTCCACCTGCCTTGGGGCCATCACAGCCCCGGACAG  GGGCCACTGGCCTGCAAACGCACCCGGGCCCTGGAGGCTGGGCTCAAGGGCCCCAGGCAA  AGGAGGGGGAGGCGCCTGAACTGGCCCGGCCACTGGGCCGCAAGGTTCTGTTTCTTA  TTGCTCAACCTGGGGCCAGGGCGTTGTAAGGACATCCAAGGGAGCTGCCCTCCTTTGCT  AAACAGAGGAGGAAGGAAGGTAGGAAATGAAGGGGATTACAGAAGGGGCTGGGTTTTCC  CCTGGCCCCCGTGTCTGAACATGAAAGCCTACCCAGAACCACGGCCTTCTCTTACCAG  CACCAAGCGTGGGGAGGCCCGCCACCACCACCACCACCTTCCACTGGGGAGGGG  GCGTCCCAAAGCTCCATTTAAATGAGAGGGTAGGGAAGGACCTGGGAATAACCCCTTC  CTAAGCCGGGAAATGCAACACTGGGGTCCAGGAACGGGGGCGCTCCCGTTCCCCAACCT  AAAGGCCCTGGGCAGGGCTGGCCCTTGCTGGGAGGGGGAAAGGGGAAACAAAATCCC  GCTTTTAAAAAGGGTGGGAAAGTATTGGAACTTGGGCAAGTTTAAAAATACACTTAC  AA</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006795
<b>Insert Size:</b>	3420 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>Components:</b>	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).
<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_006795.2</a> , <a href="#">NP_006786.2</a>

RefSeq Size:	3482 bp
RefSeq ORF:	1605 bp
Locus ID:	10938
UniProt ID:	<a href="#">Q9H4M9</a>
Cytogenetics:	11q13.1
Domains:	EH, EFh
Protein Families:	Druggable Genome
Protein Pathways:	Endocytosis
Gene Summary:	<p>This gene belongs to a highly conserved gene family encoding EPS15 homology (EH) domain-containing proteins. The protein-binding EH domain was first noted in EPS15, a substrate for the epidermal growth factor receptor. The EH domain has been shown to be an important motif in proteins involved in protein-protein interactions and in intracellular sorting. The protein encoded by this gene is thought to play a role in the endocytosis of IGF1 receptors. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Sep 2013]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and encodes the same isoform (1), compared to variant 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>