

## Product datasheet for **RG204848**

### **EHD2 (NM\_014601) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	EHD2 (NM_014601) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EHD2
Synonyms:	PAST2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG204848 representing NM\_014601  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTTCACTGGCTGAAGCGGGGCGGGGCACGGGGCCAGCAGCCCGAGGCCATCCGCACGGTGACCTCGG  
 CCCTCAAGGAGCTGTACCGCACGAAGCTGCTGCCGCTGGAGGAGCACTACCGCTTTGGGGCTTCCACTC  
 GCCGGCCCTGGAGGACGCAGACTTCGACGGCAAGCCCATGGTGTGGTGGCCGGCCAGTACAGCAGGGG  
 AAGACCAGCTTACCCAGTACCTGCTGGAGCAGGAGGTGCCCGGCTCCCGCTGGGGCTGAGCCACCA  
 CCGACTGCTTTGTGGCCGTATGCACGGGGACTGAGGGCACCGTGCCCGCAACGCCCTCGTCGTGGA  
 CCCGGACAAGCCCTCCGCAAACCAACCTTTTCGAAACACCTCCTCAACAGGTTTATGTGTGCCAG  
 CTCCTAATCAGGTCCTGGAGAGCATCAGCATCATCGACACCCCGGTATCCTGTCGGGTGCCAAGCAGA  
 GAGTGAGCCGGCTACGACTTCCCGCCGTGCTGCGCTGGTTCGCGGAGCGCTGGACCTCATCATCCT  
 GCTCTTTGATGCGCACAAGCTGGAGATCTCGGACGAGTTCTCAGAGGCCATCGGCGCGTTGCGGGCCAT  
 GAGGACAAGATCCGCGTGGTGTCAACAAGGCCGACATGGTGGAGACGCAGCAGCTGATGCGCGTCTACG  
 GCGCGCTCATGTGGGCGCTGGGCAAGGTGGTGGGCACGCCGAGGTGCTGCGCGTCTACATCGGCTCCTT  
 CTGGTCCCAGCCCTCCTCGTGCCCGACAACCGGCGCCTCTTCGAGCTGGAGGAGCAGGACCTTCCCGC  
 GACATCCAGGGCTGCCCGGCACGCAGCCTTGCACAAGCTCAACGACCTGGTGAAGAGGGCCCGGCTGG  
 TGCGAGTTCACGCTTACATCATCAGCTACCTGAAGAAGGAGATGCCCTCTGTGTTGGGAAGGAGAA  
 GAAGAAGCAGCTGATCCTCAAATGCCCGTCATCTTTCGAAGATTACAGTGAACATCATATCTCCCT  
 GGGGACTTCTGATTGCCAGAAAATGCAGGAGCTGCTGATGGCGCATGACTTACCAAGTTTCACTCGC  
 TGAAGCCGAAGCTGCTGGAGGCACTGGACGAGATGCTGACGCACGACATCGCCAAGCTCATGCCCTCG  
 CGGGCAGGAGGAGCTGGAGAGCACCGAGGTGGGCGTGCAGGGGGCGCTTTTGGGGCACCCACATGGGC  
 CCGTTTGTGGAGCGGGACCTGACGAGGCCATGGAGGACGGCAGGAGGGCTCGGACGACGAGGCCGAGT  
 GGGTGGTACCAAGGACAAGTCCAAATACGACGAGATCTTCTACAACCTGGCGCTGCCGACGGCAAGCT  
 GAGCGGCTCCAAGGCAAGACTGGATGGTGGGACCAAGCTCCCAACTCAGTGTGGGCGCATCTGG  
 AAGCTCAGCGATGTGGACCGCGACGGCATGCTGGATGATGAAGAGTTCGCGCTGGCCAGCCACCTCATCG  
 AGGCCAAGCTGGAAGGCCACGGGCTGCCCGCAACCTGCCCGTCGCTGGTCCACCCTCAAGCGACG  
 CCACAAGGGCTCCGCCGAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG204848 representing NM\_014601  
 Red=Cloning site Green=Tags(s)

MFSWLKRGARGQQPEAIRTVTSALKEL YRTKLLPLEEHYRFGAFHSPALEDADFDGKPMVLVAGQYSTG  
 KTSFIQYLLEQEVPGSRVGPPTTDCFVAVMHGDTTEGTVPGNALVVDPKPFRKLNPFNGTFLNRFMCAQ  
 LPNQVLESISIIDTPGILSGAKQRVSRGYDFPAVLRWFAERVDLIILLFDAHKLEISDEFSEAIGALRGH  
 EDKIRVVLNKAADMVETQQLMRVYGALMWALGKVVGTPEVLRVYIGSFWSQPLLVPDNRRLFELEEQLFR  
 DIQGLPRHAALRKLNDLVKRARLVRVHAYIISYLKKEMPVFGKENKKQLILKLPVIFAKIQLEHHISP  
 GDFPDCQKMQELLMAHDFTKFHSCLKPKLLEALDEMLTHDIAKLMPLLRQEELSTEVGVQGGAFEGTHMG  
 PFVERGPDEAMEDGEEGSDDEAEWVTKDKSKYDEIFYNLAPADGKLSGSKAKTWMVGTKLPNSVLGRIW  
 KLSVDVDRDGLDDEEFALASHLIEAKLEGHGLPANLPRRLVPPSKRRHKGSAE

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_014601

**ORF Size:** 1629 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\\_014601.2](#), [NP\\_055416.2](#)

**RefSeq Size:** 3517 bp

**RefSeq ORF:** 1632 bp

**Locus ID:** 30846

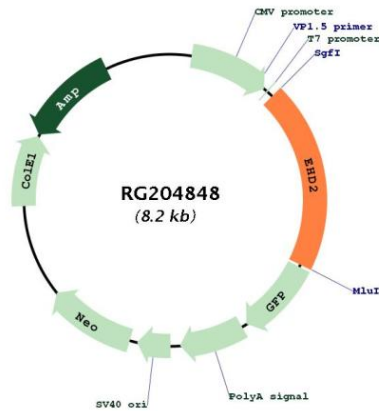
**UniProt ID:** [Q9NZN4](#)

**Cytogenetics:** 19q13.33

**Protein Pathways:** Endocytosis

**Gene Summary:** This gene encodes a member of the EH domain-containing protein family. These proteins are characterized by a C-terminal EF-hand domain, a nucleotide-binding consensus site at the N terminus and a bipartite nuclear localization signal. The encoded protein interacts with the actin cytoskeleton through an N-terminal domain and also binds to an EH domain-binding protein through the C-terminal EH domain. This interaction appears to connect clathrin-dependent endocytosis to actin, suggesting that this gene product participates in the endocytic pathway. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG204848