

## Product datasheet for **RG225973**

### Epsin 1 (EPN1) (NM\_001130072) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Epsin 1 (EPN1) (NM_001130072) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Epsin 1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG225973 representing NM\_001130072  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCGACCTCGTCTTGAGGCGCCAGATGAAGAACATCGTCCAACTACTCAGAGCGGAGATCAAGG  
 TTCGAGAGGCCACGAGCAATGACCCCTGGGGCCATCCAGCTCCCTCATGTGAGAGATTGCCGACCTCAC  
 CTAACAACGTTGTCGCCTTCTCGGAGATCATGAGCATGATCTGGAAGCGGCTCAATGACCATGGCAAGAAC  
 TGGCGTCACGTTTACAAGGCCATGACGCTGATGGAGTACCTCATCAAGACCGGCTCGGAGCGGTGTGCG  
 AGCAGTGAAGGAGAACATGTACGCCGTGACAGCCTGAAGGACTTCCAGTACGTGGACCGGACGGCAA  
 GGACCAGGGCGTGAACGTGCGTGAGAAAGCTAAGCAGCTGGTGGCCCTGCTGCGGACGAGGACCGGCTG  
 CGGAAGAGCGGGCGCACGCGCTCAAGACCAAGGAAAAGCTGGCAGACCGCCACGCGCTCATCAGCAG  
 CTGTGGGCTCAGGCCCCCTCCGAGGCGGAGCAGGCGTGGCCGACAGCAGCGGGGAGGAGGAGCTGCA  
 GCTCCAGCTGGCCCTGGCCATGAGCAAGGAGGAGCCGACCGCCCGTCTGCGGCCCGAGGACGAC  
 GCCCAGCTCCAGCTGGCCCTTAGTTGAGCCGAGAAGAGCATGATAAGGAGGAGCGGATCCGTCGCGGGG  
 ATGACCTGCGGCTGCAGATGGCAATCGAGGAGAGCAAGAGGGAGACTGGGGGCAAGGAGGAGTCTCCCT  
 CATGGACCTTGCTGACGCTTACCGGCCACAGCTCCTGCCCGACACAGACCCCTGGGGGGGCCAGCA  
 CCCATGGCTGCTGCCGTCACCGGCTGCCCCACCTCGGACCCCTGGGGCGGCCCCCTGTCCCTCCAG  
 CTGCTGATCCCTGGGAGGTCCAGCCCCACGCGGCTCTGGGGACCCCTGGAGGCTGCTGCCCTGC  
 AGGACCCCTCAGTTGACCTTGGGGTGGGACCCAGCCCTGCAGCTGGGGAGGGGCCACGCCTGATCCA  
 TGGGGAAGTCCGATGGTGGGGTCCCGTCAGTGGGCTCAGCCTCCGATCCCTGGACACCGGCCCGG  
 CCTTCTCAGATCCCTGGGAGGGTCACTGCCAAGCCAGCAACCAATGGCACAACAGCCGGGGGAT  
 CGACACGGAGCCCGACGAGTCTCTGACTTTGACCGACTCCGACGCGCACTGCCGACCTCCGGGAGCAGC  
 GCAGGAGAGCTGGAGCTGCTGGCAGGAGAGGTGCCGCGCCGAAGCCCTGGGGCGTTTGACATGAGTGGG  
 TCAGGGGATCTCTGGCTGAGGCTGTGGGACGCCCCACCTGCAGCCACACCAACTCCCACGCCCCCAC  
 CCGGAAGACGCCGGAGTATTCTGGGGCCAATGCAGCCCTCGTCGACCTGGACTCGCTGGTGAGCCGG  
 CCGGGCCCCACGCCGCTGGAGCCAAGGCTCCAACCCCTTCTGCCAGGCGGAGGCCACGCACTGGCC  
 CTTCCGTCACCAACCCCTCCAGCCCGCCTCCCGGACGCTCACCTGAACAGCTCCGTCTCAGTCC  
 TGTGCTCCCGTCCCTGGAGCGCCACCCACGTACATCTCTCCCTTGGCGGGGCCCTGGCTGCCCC  
 ATGATGCCCGGGCCCCCGGCCCAACACTAATCCCTTCTCCTA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG225973 representing NM\_001130072  
 Red=Cloning site Green=Tags(s)

MSTSSLRQMKNI VHNYSAEIKVREATSNDPWGPSSSLMSEIADLTYNVVFSEIMSMIWKRLNDHGKN  
 WRHVYKAMTLMELYIKTSERVSQCKENMYAVQTLKDFQYVDRDQKQGVNVREKAKQLVALLRDEDRL  
 REERAHALKTKKLAQTATASSA AVGSGPPPEAEQAWPQSSGEEELQLQLALAMSKEEADQPPSCGPEDD  
 AQLQLALSLSREEHDKEERIRRGDLRLQMAIEESKRETGGKEESSLMDLADVFTAPAPAPTTDPWGGPA  
 PMAAAVPTAAPTSDPWGGPPVPPAADPWGGPAPTASGDPWRPAAPAGPSVDPWGGTPAPAAGEGPTDP  
 WGSDDGGVPVSGPSASDPWTPAPAFSDPWGGSPAKPSTNGTTAAGGFDEPDEFSDFDRLRALPTSGSS  
 AGELELLAGEVPARSPGAFDMSGVVRGSLAEAVGSPPPAATPTPTPPTRKTPESFLGPNAALVDLDSLVS  
 R PGPTPPGAKASNPFLPGGGPATGPSVTNPFQAPPATLTLNQLRLSPVPPVPGAPPTYISPLGGGGLPP  
 MMPPGPPAPNTNPFLL

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001130072

**ORF Size:** 1728 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\\_001130072.2](#)

**RefSeq Size:** 2501 bp

**RefSeq ORF:** 1731 bp

**Locus ID:** 29924

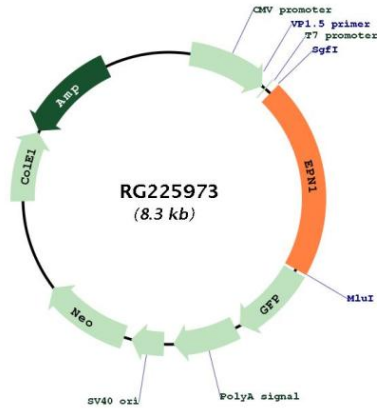
**UniProt ID:** [Q9Y6I3](#)

**Cytogenetics:** 19q13.42

**Protein Pathways:** Endocytosis

**Gene Summary:** This gene encodes a member of the epsin protein family. The encoded protein binds clathrin and is involved in the endocytosis of clathrin-coated vesicles. Loss of function of this gene is associated with reduced tumor growth and progression in certain cancer types. [provided by RefSeq, Mar 2016]

**Product images:**



Circular map for RG225973