

Product datasheet for **MR209035**

Epn1 (NM_010147) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Epn1 (NM_010147) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Epn1
Synonyms:	AA269831; lbp1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209035 representing NM_010147
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGACCTCATCGCTGCGGCGTCAGATGAAGAATATCGTCCACAACACTACTCAGAGGCTGAGATCAAGG
 TCCGCGAGGCCACAAGCAATGATCCCTGGGGCCATCCAGCTCCCTCATGTGAGAGATTGCTGACCTCAC
 CTAACAATGTTGTGGCCTTCTCCGAGATCATGAGCATGATCTGGAAGCGGCTCAATGACCACGCAAGAAC
 TGGAGGCACGTCTACAAGGCCATGACGTTGATGGAGTACCTCATCAAGACTGGCTCTGAGCGTGTATCAC
 AACAGTGC AAAGAGAACATGTATGCTGTGCAGACGCTGAAGGACTTCCAGTATGTGGACCGTGTGGCAA
 GGACCAGGGTGTGAATGTGCGGGAGAAGGCCAAGCAGCTGGTGGCTTTGCTGCGTGATGAGGATCGGCTC
 CGGGAGGAGCGGCCACGCGCTCAAGACCAAGGAGAAGCTGGCACAGACTGCCACGGCCTCCTCAGCAG
 CCGTGGGCTCTGGACCACCTCCCGAGGCGGAGCAGGCATGGCCACAGAGCAGCGGGAGGAGGATTGCA
 GCTCCAGCTGGCCCTGGCTATGAGCAAGGAGGAGGCCAGCCCGTCTGCGGCCCTGAGGATGAC
 GTCAGCTCCAGCTGGCCCTTAGTTTGGCCGAGAGGAGCAGATAAGGAAGAGCGGATCCGTCGTGGGG
 ATGACCTGAGGCTGCAGATGGCAATAGAGGAGAGCAAGAGGGAGACTGGGGGCAAGGAGGAGTATCTCT
 CATGGATCTTGCTGATGTCTTACAACCCAGCGCCTCCACAGGCCTCAGACCCTTGGGGGGGCCGGCA
 TCTGTGCTACTGCTGTCCCTGTGGCTGCTGCCGCTTACAGCCCTTGGGGGGACCTGCTGTCCCTCCAG
 CTGCTGATCCTTGGGGTGGTGCAGCCCCACACCAGCCTCAGGGGATCCCTGGAGGCCTGCAGCCCTAC
 AGGGCCCTCTGTTGATCCTTGGGGTGGGACCCAGCTCCTGCAGCTGGAGAGGGGCCACCCCTGACCCG
 TGGGGAAGCTCTGATGGTGGGGCTCCTGTCAGTGGGCCCCATCTTCTGACCCCTGGGCACCTGCCCGG
 CTTTCTCAGACCCCTGGGGAGGCTCACCTGCAAGGCCAGCAGCAACGGCACTGCAGTTGGGGCTTGA
 CACAGAGCCTGATGAGTTCTCAGACTTCGACCCGACTCCGCACTGCCCTGCCAACCTCTGGGAGCAGCAG
 GGGGAGTTGGAGTTGCTCGCAGGAGAGGTGCTGCTCGCAGCCCTGGGGATTTCGACATGAGTGGGGTTG
 GGGGATCTCTGGCTGAGTCTGTGGGGAGTCCCCACCTGCTGCAACCCCAACTCCACCCCCCAACACG
 GAAGACTCCGGAGTATTCTTAGGCCCTAATGCAGCCCTTGTGGATCTGGACTCGTGGTGGAGCCGACCA
 GGCCCCACACCACAGGATCCAAGGCTTCAACCCATTCTTCCAAGCGGAGCTCCGCCACAGGCCCT
 CTGTACCAATCCTTCCAGCCAGCACCCTGCAACGCTCACCCCTGAACCAGCTCCGTCTCAGTCTGT
 GCCCCAGTTCCTGGAGCGCCACCACCTATATCTCTCCTTGGTGGAGGCCCTGGCTGCCCCCATG
 ATGCCCCAGTCCCCAGCCCCAACCTAACCCTTCTCTCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209035 representing NM_010147
 Red=Cloning site Green=Tags(s)

MSTSSLRQMKNIHVNYSEAEIKVREATSNDPWPSPSSLMSEIADLTYNVVFSEIMSMIWKRLNDHGKN
 WRHVYKAMTLMEYLIKTGSERVSQCKENMYAVQTLKDFQYVDRDGDQGVNVREKAKQLVALLRDEDRL
 REERAHALKTKEKLAQTATASSA AVSGPPPEAEQAWPQSSGEEELQLQLALAMSKEEADQPPSCGPEDD
 VQLQLALSLSREEHDKEERIRRGDDLRLQMAIEESKRETGGKEESSLMDLADVFTTPAPPQASDPWGGPA
 SVPTAVPVAAAAADPWPWGPVPPAADPWGGAAPTASGDPWRPAAPTGPSVDPWGGTPAPAAGEGPTPDP
 WSSDGGAPVSGPPSSDPWAPAPAFSDPWGGSPAKPSSNGTAVGGFDTEPDEFSDFDRLRLALPTS GSST
 GELELLAGEVPARSPGAFDMSGVGGSLAESVGSPPPAATPTPTPPTRKTPEFSLGPNAALVDLDSLVS RP
 GPTPPGSKASNPFPSGAPPTGPSVTNPFQPAPPATLTLNQLRLSPVPPVPGAPPTYISPLGGGGLPMM
 MPPGPPAPNTNPFLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_010147

ORF Size: 1725 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_010147.2](#)
RefSeq Size: 2582 bp

RefSeq ORF: 1728 bp

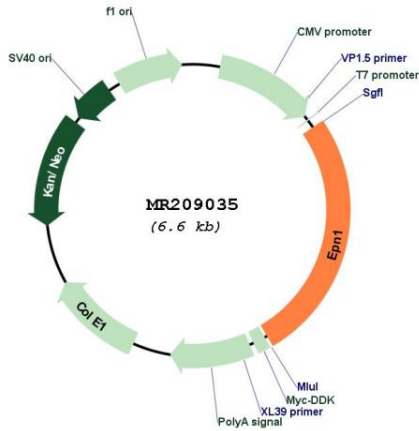
Locus ID: 13854

UniProt ID: [Q80VP1](#)
Cytogenetics: 7 A1

MW: 60.7 kDa

Gene Summary: Binds to membranes enriched in phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P2). Modifies membrane curvature and facilitates the formation of clathrin-coated invaginations (By similarity). Regulates receptor-mediated endocytosis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209035