

Product datasheet for **MR209265**

Epn2 (NM_010148) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Epn2 (NM_010148) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Epn2
Synonyms:	9530051D10Rik; AA536924; lbp2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209265 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACAATTCATCTATCAGACGGCAGATGAAAAACATTGTGAACAATTACTCAGAGGCTGAAATCAAAG
 TCCGGGAGGCCACTCCAATGACCCGTGGGGCCCATCCAGCTCTCTGATGACTGAGATTGCTGACCTGAC
 CTAACAATGTGGTAGCGTTCTCGGAGATCATGAGCATGGTTTGAAGCGACTTAATGACCATGGCAAGAAC
 TGGCGGCATGTATAAAGGCACTGACACTGCTGGACTACCTTATCAAGACAGGTTCTGAGCGGGTGGCC
 AGCAGTGCCGTGAGAACAATCTTTGCCATACAGACTCTGAAGGACTTTTCAGTACATTGACCGTGATGGCAA
 AGACCAGGGTATTAACGTTGAGAGAAAATCAAAGCAACTGGTTGCGCTCCTCAAGGATGAGGAGCGGCTG
 AAGGTTGAGAGAGTTCAGGCTCTCAAACCAAAGAGCGCATGGCTCAGGTGGCCACTGGCGTGGGCAGCA
 ACCAAATCACCTTTGGCCGTGGCTCCAGCCAGCCCAACCTTTCTACCAGTACTCAGAGCAGGAGTATGG
 CAAGGCTGGGGGCTCGCCGGCATCTACCAGGCTCTACTTCCCCACGAGTATCCTCTGAGTTAGAGCAG
 GCCCGGCCACAGACAAGCGGAGAAGAGGAGCTGCAGCTACAACGGCACTTGCCATGAGCAGAGAGGTTG
 CTGAGCAGTCATCAGAAAGCGTGACAGACAGCCAGAGGCAGCAAGGAAGAACGCCCTCAGGCGGGTGTGA
 CCTCAGATTGAGATGGCTCTGGAAGAAAGCCGGAGAGACACAGTAAAAGTTCCAAAAAGAAAGAGGCG
 AAAGCTTGTGCAAGCCAGGCTCCCACTCCAGCAGACTACCTTGTGGATTTAATGGATGCCCTCCCA
 GCTCAGGCCCTGTTACACAGAAAAGTGAAGCCCTGGAGTGCAGGAGCCTCTGCTAACCCAGCAACCCCTG
 GGGTGAACAGTGGCTCCTTCAACATTACTGACCCGTGGCCATCGTTTGGTACCAAGCCAGCTGCCTCT
 GTGGACCCCTGGGAGTACCTACCACAGCCAGCACACAGTCTGTCCTAAGAAGTCAAGCCCTGGGCAG
 CCTCACAGCAGCCTGCCTCAATGCTGGAAGACAACAGATGCCGGGAGCTGCTAAGCCAGTTCTGTC
 CTCAGGGTCTTTGAGCTCTTCAGTAATTTCAACGGTACAGTTAAAGATGATTTTTCTGAATTTGACAAC
 CTTCAACTTCAAAAAACCAGCTGAGTCAAGGGCCTCAGTGCCACCCAGGACAGCAGAACCCAGGCC
 CTGACCTCTTTGAGTCTCAATCCTTGACTTCTGCGTCAAGCAAGCCTAGCAGTGCCAGGAAAAACCTGA
 GTCCTTCTGGGCCCAATGCAGCCCTGGTGAACCTGGACTCATTGGTGACTAAGCCTGCTCCACCAGCT
 CAGTCCCTTAATCCCTTCTGGCACCAGGTGCTGCTGCTCCAGCCCTGTCAACCCTTCCAGGTCAACC
 AGCCCCAGCCGCTGACTGAACCAGCTCCGGGAAGCCCTGCTCGGGAAGCAGTGCATCCTTTGGGTC
 TGGTCCAGGGTGGAGACTGTGGCTCCCATGACCTCAGTAGCTCCACACTCATCAGTGGGGCCAGTGGC
 TCCTCCTTGACACCACTGGGCCCTACAGCAATGAACATGGTAGGCAGTGTGGCATTCCCCATCAGCAG
 CTCAGTCAACAGGCACAACAAACCTTTCTTCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209265 protein sequence
 Red=Cloning site Green=Tags(s)

MTTSSIRRQMKNI VNNYSEAEIKVREATSNDPWGPSSSLMTEIADLTYNVVFSEIMSMVWKR LNDHGKN
 WRHVYKAL TLLDYL IKTGSERVAQQRENIFAIQTLKDFQYIDRDGKDQGINVREKSKQL VALLKDEERL
 KVERVQALKTKERMAQVATGVGSNQITFGRGSSQPNLSTSYSEQEYKAGGSPASYHGSTSPRVSSELEQ
 ARPQTSGEELQLQLALAMSREVAEQSSSVQTARGSKERLRGGDLRLQMALEESRRDVTKVPKKKEA
 KACCKPGSHSQQTLLDLMDALPSSGPVTQKTEPWSAGASANQTNPWGGTVAPSNI TDPWPSFGTKPAAS
 VDPWGVPTTASTQSVPKNSDPWAASQQPASNAGKTTDAWGAAKPSASGSFELFSNFNGTVKDDFSEFDN
 LRTSKKPAESGASVPPQDSRTTSPDLFESQSLTSASSKPSSARKTPESFLGPNAALVNLDSLVTKPAPPA
 QSLNPFLAPGAAAPAPVNPQVNPQPLTLNQLRGSPVLGSSASFSGSPGVETVAPMTSVAPHSSVSGASG
 SSLTPLGPTAMNMVGSVGI PPSAAQSTGTTNPFLL

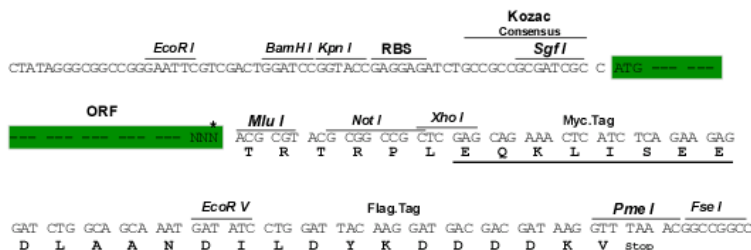
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_010148

ORF Size: 1788 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_010148.4](#)
RefSeq Size: 4266 bp

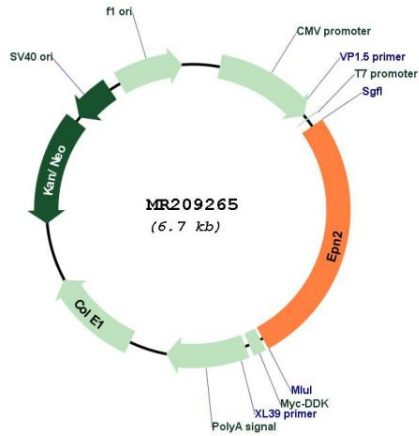
RefSeq ORF: 1788 bp

Locus ID: 13855

UniProt ID: [Q8CHU3](#)

Cytogenetics: 11 B2
MW: 63.5 kDa
Gene Summary: Plays a role in the formation of clathrin-coated invaginations and endocytosis.
 [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209265