

Product datasheet for **MR216065**

Pebp4 (NM_028560) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Pebp4 (NM_028560) Mouse Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Pebp4
 Synonyms: PEBP-4
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >MR216065 representing NM_028560
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACAATGAAGCTGGTCGCAGCAGCACTTTGCTTGAGCCTCCTTGACGCCGGCCTGTGGGTGGGCCTCT
 CATTGACAGCTGAGTCCATTGAAGAAGGGAAACCTGGAGGAGAGAAACCTGGAGGAGGGAAACCTGGAGG
 CAGCGGACGAGGATGTTTTCTCCCACTGCCAAAAGAAGATGTTTCACTATGCAGGAACCTAGAAGTT
 TTCTACATGGAGATGGGGAACATCAGCTGTAAAATTGTTCTAAGTCAATCTATACAGACAGAAGATCA
 CGGCCTGGCAGGCGCGATAGTCAAGTCCACACGGCTTTGGATGGTGCCTGTACTGCTGGTAATGGT
 GGATCCAGATGCCCCAGCAGGTCTAACCCCGTATGAAATACTGGAGACTGGTTGGTGTCCAACATC
 ACAGGTGCTGACATGAAAAGTGGGAGTATCCGTGGCAATGTAATCAGACTACTCGCCGCTACCCAC
 CGCCAGAACTGGTCTACACCGCTACCAGTTCTTTGTCTACCTTCAGGGAGACAGAGACATTTCTCTCTC
 AGTGGAAGAAAAGGCAGACTTAGGTGGTTGGAATCTGGACAAATCCTGCAGCAATATGGGCTGAGAGAT
 CCCGACACAAGCACCCAGTTCATGACTCAGTTTGACGAGGAAGTGCATCAGAGTTTGGTAGAATTAACG
 ACGATCAAGAGCAATCAATCAAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR216065 representing NM_028560
Red=Cloning site Green=Tags(s)

MTMKLVAAALCLSLLAAGLWVGLSLTAESIEEGKPGGEKPGGGKPGGSGRGCFLPPLPKEDVSLCRNLEV
 FYMEMGNI SCKIVPKCNLYRQKITAWQAPIVKFHTALDGALYLLVMVDPDAPSRSNPVMKYWRHWLVSNI
 TGADMKSGSIRGNVLSDYSPPTPPPETGLHRYQFFVYLQGDRDISLSVEEKADLGGWNLDKFLQQYGLRD
 PDTSTQFMTQFDEEL SSEFGRINDDQE QFNQK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9061_c12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_028560

ORF Size: 726 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_028560.4](#), [NP_082836.2](#)

RefSeq Size: 1092 bp

RefSeq ORF: 729 bp

Locus ID: 73523

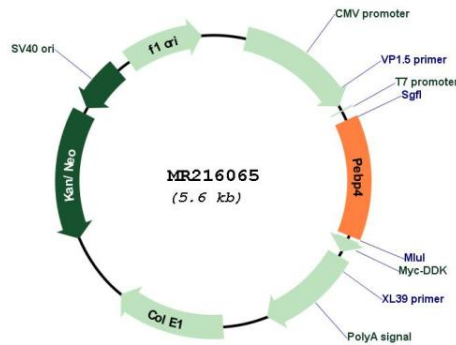
UniProt ID: [G3X8V3](#)

Cytogenetics: 14 D2

MW: 26.9 kDa

Gene Summary: Promotes AKT phosphorylation, suggesting a possible role in the PI3K-AKT signaling pathway. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR216065