

Product datasheet for **MR218619**

Veph1 (NM_028357) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Veph1 (NM_028357) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Veph1
Synonyms: 2810471M23Rik; Veph
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR218619 representing NM_028357
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGAAGTTGCGTGGCAAAGCTGTTCTTTACCTGTTCTTTAAAGGGCCATTACTGCCTATACAGCAAGT
CCAGCTTCATCCTTGTCAGCCAAGCACCCAGCCGTGGATCCAGGTCATGTTTCTCTCCCAACAGAGCCT
GTTTCCTGAGCCCTGTCCATTCAGAGTGGGTCTGTGCAGTTCCTCAAAGCCCTATGGGAGAAAACGCAG
GACACGGGAGCGCACAGCTTTGAAGTCGCCATGACAGAGTCCACCTTTCCACAGCAGAAGGATCTGGAGC
AGCTTCAGCTCCATCTGGAAGAAGTGCGGTTCTTCGACGTGTTTGGCTCAGTAAAACAGCGGGGCATG
GCAGTGCTTCATGTGCAACAACCCTGAAAAGGCAACTGTTGTAATCAAGATGGCCAGCCTCTCATCGAA
GGAAAACCTTAAGGAGAAACAAGTGAGGTGGAAGTTCATCAAGAGGTGGAAAACGCATTATTTTACTG
CCGAAACCAACTTCTGTTTCAAAGGGGAAATCTAAGGATGACCCTGATGATTCCCCGATAGAACTCAG
CAAGGTACAGAGCGTAAAGCTGTGGCTAAGAAACGCCGGGACCCTCTCTGCCTCGGGCGTTTGAATC
TTCACAGATAGTAAGACCTATGTTTTCAAAGCCAAGGATGAGAAGAACGCAGAGGAATGGCTGCAGTGCA
TCAACGTGGCGCTGGCCAGGCAAAGGAGAGGGAAAGCCGAGAAGTAACCATATCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR218619 representing NM_028357
Red=Cloning site Green=Tags(s)

MRSCVAKLFFTCSLKGHYCLYSKSSFILVSQAPQPWIQVMFLSQQLFPEPLSIQSGSVQFLKALWEKTQ
 DTGAHSFEVAMTESTFPQQKDLEQLQLHLEEVRFDFVGFSETAGAWQCFMCNNPEKATVNVNDGQPLIE
 GKLEKQVRWKFIKRWKTHYFTLAGNQLLFQKGSKDDPDDSPIELSKVQSVKAVAKRRDRSLPRAFEI
 FTDSKTYVFKAKDEKNAEELQCINVALAQAKERESREVTYYL

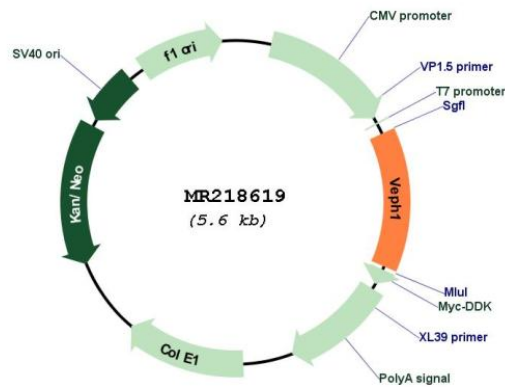
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_028357
ORF Size: 759 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:	<ol style="list-style-type: none">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_028357.4 , NP_082633.1
RefSeq Size:	3221 bp
RefSeq ORF:	762 bp
Locus ID:	72789
Cytogenetics:	3 E1
MW:	118 kDa
Gene Summary:	Interacts with TGF-beta receptor type-1 (TGFBR1) and inhibits dissociation of activated SMAD2 from TGFBR1, impeding its nuclear accumulation and resulting in impaired TGF-beta signaling. May also affect FOXO, Hippo and Wnt signaling.[UniProtKB/Swiss-Prot Function]