

## Product datasheet for **MR218610**

### Veph1 (NM\_145820) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Veph1 (NM_145820) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Veph1
Synonyms:	2810471M23Rik; Veph
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR218610 representing NM\_145820  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCATCAACTTTTCAGATTGGTTTTGGGACAAAAAGATCTTTCAAAGCTGGGGACCTCTCTCTTTAG  
 ATGATGCTGAGATTGAAGACAGCCTGACAGAAGCTTTGGAGCAGATTAAGTAATTAGCTCATCTTTGGA  
 TTACCAAATAAACAATGACCAGCGGTGGTTGAAATCTGTATCACAAGGATTACCACAGCCATCAGA  
 GAGACAGAATCCATTGAAAAGCATGCCAGAGCCCTGGTGGGGCTGTGGGATTCTGCTTGGAACACAACC  
 TGAGACCTGCAGGGAAAGACGAAGATACTCCACATGCAAAAATCGCCTCTGATATCATGAGTTGCATCTT  
 ACAGAATTACAACCGACCCCTGTGATGGTCTTAGCTGTCCCATCGCAGTGAAATTCCTCCACAGAGGC  
 AGCAAGGAGCTGTGTAGGAACATGTCCAACCTACCTGTCCCTGGCTGCCATACCAAGGCGGATCTGCTGG  
 CTGACCACACTGAAGGGATAATAAGAGCATACTCCAAGGAAATGCCATGCTGTTAAGGGTCTACCTGC  
 TGTATATGAAAAGCAGCCCAACCAATCAACAGACACCTGGCAGAACTCTGGCCTTGATGTCTCAATTG  
 GAGCAGACAGAACAGTACCATCTACTAAGGCTTCTGCACGTAGCAGCAAAGAGAAAAGATGTGGAGGTGG  
 TTCAGAAATGTGTTCTTTCCTGATCAGAAATTTGAAGGATTCAACCTATAATGACATCATCCTAAACAT  
 TCTCATAGAAATAGCAGGCCATGAGCCACTGGCCTTGAACAGTTTCTCCCGATGCTGAAAGAGATTGCA  
 GAGCAATCCCCTACCTCACTGGACAGATGGCAAGGATCTTTGGTGTGTGGTGTGATGAGGATGAAGAGA  
 GAGCCAGGAGCTGCCTACGATACCTGGTGGCCAGCTGGTAATATGGAGCATCCATTCCACCATATTCT  
 CCTGCTGGAAATTAAGAGTATCACAGATGCCTTCTCCTCCATCCTGGGCCGCACAGCAGGGACATCTT  
 CGAATGAGCAACAGCTTACCAACATTGCCAAGCTCCTTCCAGACAAGTGGAAAACAGCAAGGCTGACA  
 GTAGCAGGAGAAAAACCAGCACTGAAGTTAGCATTCTCTGAGAACTGAGAGAACTCAATTCATGGAGCC  
 TGAAAGTGAAGACCATGAAAACTCCAAGTTAAAATCCAAGCCTTTGAAGACAAAATAAATGCTGAGAGC  
 AATACCCAGGCTCTGGCCGGAGATACAGCTTAGACCACATCTCTAAGGAAGAACGAAAAAGCATTAGAT  
 TTAGCAGTCCAGAAGTTTGGCTTTGAATACTGTGCTCACAACCGGTGTGAGTGTGGAAGATAACGAAGT  
 CGAAGAAAAGGCAGGAATGCACGCCAGCATCTCTTTTCGCAAATAGACCCACTCAGCCACGGGATTGGC  
 AAGTTGCCCTTTAAGACAGACTCATGGATCACCCTGAGAAATTCCTCAGCTTACACCCAAGTATTA  
 TACATACTGAACCAGAGACTATGCCGAACTTTAAAGAAAACATCCAAGAAGAAATTCAGAGGCAGC  
 CACAAGTCTATTGAATACCAAGATAAGCTCTACTTGCATTTAAGGAAAACCTCAGCAAAGTGAAGGCT  
 TATGCCTTGGAAATCGCAAAAAGGTCCAATCCAGACCAGTGCACCATTGAAGATACTATGAGAAGTT  
 GCGTGGCAAAGCTGTTCTTTACCTGTTCTTTAAAGGGCCATTACTGCCTATACAGCAAGTCCAGCTTCAT  
 CCTTGTACAGCAAGCACCCAGCCGTGGATCCAGGTCATGTTTCTCTCCAACAGAGCCTGTTTCTGAG  
 CCCCTGTCCATTAGAGTGGGTCTGTGCAGTTCCTCAAAGCCCTATGGGAGAAAACGCAGGACACGGGAG  
 CGCACAGCTTTGAAGTCGCCATGACAGAGTCCACCTTTCCACAGCAGAAGGATCTGGAGCAGCTTACGCT  
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 ATGTGCAACAACCTGAAAAGGCAACTGTTGTAATCAAGATGGCCAGCCTCTCATCGAAGGAAAACCTTA  
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 ACTTCTGTTTCAAAGGGGAAATCTAAGGATGACCCCTGATGATTCCCGATAGAAGTCAAGGAAAGTACAG  
 AGCGTGAAGCTGTGGCTAAGAAAACGCCGGACCCTCTCTGCCTCGGGGCTTTGAAATCTTACAGATA  
 GTAAGACCTATGTTTTCAAAGCCAAGGATGAGAAGAACGCAGAGGAATGGCTGCAGTGCATCAACGTGGC  
 GCTGGCCAGGCAAAGGAGAGGGAAAGCCGAGAAGTAACCACATATCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR218610 representing NM\_145820  
Red=Cloning site Green=Tags(s)

MHQLFRLVLGQKDL SKAGDLFSLDDAEIEDSLTEALEQIKVISSSLDYQTNNNDQAVVEICITRITTAIR  
ETESIEKHARALVGLWDSCLEHNL RPAGKDEDT PHAKIASDIMSCILQYNRTPVMVLAVPIAVKFLHRG  
SKELCRNMSNYLSLAAITKADLLADHTEGIIKSILQGNAMLLRVLPVYVEKQPQPINRH LAELLALMSQL  
EQTEQYHLLRLLHVAAKRKDVEVVQKVPFLIRNLKDSTYNDIILNILEIAGHEPLALNSFLPMLKEIA  
EQFPYLTGQMARIFGAVGHVDEERARSCLRYLVSQLANMEHPFHILLLEIKSITDAFSSILGPHSRDIF  
RMSNSFTNIAKLLSRQLENSKADSSRRKTSTEVS IPEKLR ELNSMEPESEDHEKLQVKIQAFEDKINAES  
NTPGSGRRYSLDHSKEERKSIRFSRSRSLALNTVLTNGVSVEDNEVEEKAGMHASISLSQIDPLSHGIG  
KLPFKTDTHGSPLRNSSASHPSIIHTEPETMPETFKENIQEEILEAATSPIEYQDKLYLHLRENLSKVKA  
YALEIAKKVPIPDQCTIEDTMRSCVAKLFFTC SLKGHYCLYSKSSFILVSQAPQPWIQVMFLSQQSLFPE  
PLSIQSGSVQFLKALWEKTQDTGAHSFEVAMTESTFPQQKDLEQLQLHLEEVRFDFVGFSETAGAWQCF  
MCNNPEKATVVNQDQPLIEGKLEKQVRWKF IKRWKTHYFTLAGNQLLFQK GKSKDDPDDSPIELSKVQ  
SVKAVAKRRDRSLPRAFEIFTDSKTYVFKAKDEKNAEEWLQCINVALAQAKERESREVTTYL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9090\\_g01.zip](https://cdn.origene.com/chromatograms/mm9090_g01.zip)

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_145820

**ORF Size:** 2499 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\\_145820.3](#), [NP\\_665819.2](#)

**RefSeq Size:** 6450 bp

**RefSeq ORF:** 2502 bp

**Locus ID:** 72789

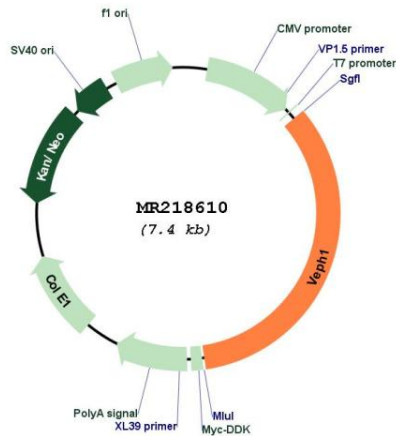
**UniProt ID:** [A1A535](#)

**Cytogenetics:** 3 E1

**MW:** 94.5 kDa

**Gene Summary:** Interacts with TGF-beta receptor type-1 (TGFB1) and inhibits dissociation of activated SMAD2 from TGFB1, impeding its nuclear accumulation and resulting in impaired TGF-beta signaling. May also affect FOXO, Hippo and Wnt signaling.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR218610