

Product datasheet for **MG218610**

Veph1 (NM_145820) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Veph1 (NM_145820) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Veph1
Synonyms:	2810471M23Rik; Veph
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG218610 representing NM_145820
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

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 ATGATGCTGAGATTGAAGACAGCCTGACAGAAGCTTTGGAGCAGATTAAGTAATTAGCTCATCTTTGGA
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 TGAGACCTGCAGGGAAAGACGAAGATACTCCACATGCAAAAATCGCCTCTGATATCATGAGTTGCATCTT
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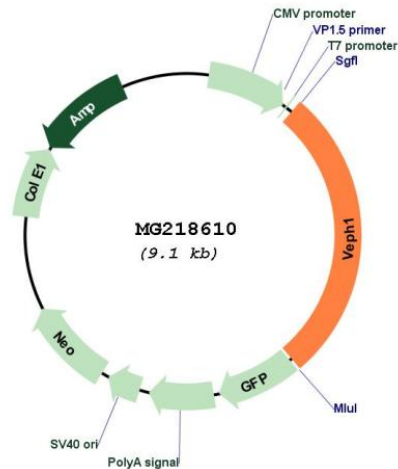
ACCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG218610 representing NM_145820
 Red=Cloning site Green=Tags(s)

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MHQLFRLVLGQKDL SKAGDLFSLDDAEIEDSLTEALEQIKVISSSLDYQTNNNDQAVVEICITRITTAIR
ETESIEKHARALVGLWDSCLEHNL RPAGKDEDPHAKIASDIMSCILQYNRTPVMVLAVPIAVKFLHRG
SKELCRNMSNYLSLAAITKADLLADHTEGIIKSILQGNAMLLRVLPVYVEKQPQPINRH LAELLALMSQL
EQTEQYHLLRLLHVAAKRKDVEVVQKVPFLIRNLKDSTYNDIILNILEIAGHEPLALNSFLPMLKEIA
EQFPYLTGQMARIFGAVGHVDEERARSCLRYLVSQLANMEHPFHILLLEIKSITDAFSSILGPHSRDIF
RMSNSFTNIAKLLSRQLENSKADSSRRKTSTEVS IPEKLR ELNSMEPESEDHEKLQVKIQAFEDKINAES
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YALEIAKKVPIPDQCTIEDTMRSCVAKLFFTC SLKGHYCLYSKSSFILVSQAPQPWIQVMFLSQQSLFPE
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SVKAVAKRRDRSLPRAFEIFTDSKTYVFKAKDEKNAAEWLQCINVALAQAKERESREVTYYL
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TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Plasmid Map:


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: 5145 bp

RefSeq ORF: 2502 bp

Locus ID: 72789

UniProt ID: [A1A535](#)

Cytogenetics: 3 E1

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]