

## Product datasheet for RC229641

### VEPH1 (NM\_001167917) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** VEPH1 (NM\_001167917) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** VEPH1  
**Synonyms:** MELT; VEPH  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC229641 representing NM\_001167917  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGCATCAACTGTTCAGACTGGTTTTGGGACAAAAAGATCTTTCACGAGCTGGGACCTCTTCTCCTTAG  
 ATGACTCTGAGATTGAAGACAGCCTTACAGAAGCTTTGGAGCAAATTAAGATAATTAGCTCATCTTCAGA  
 TTACCAAACCAATAACAATGACCAGGCAGTAGTTGAAATCTGTATCACAAGAATCACAACAGCCATCAGA  
 GAGACCGAGTCCATTGAAAAGCATGCAAAGCCCTTGTGGGGCTCTGGGACTCCTGCTTGGAACATAACC  
 TGAGACCCTTTGGGAAAGACGAAGACACTCCTCATGCAAAAATCGCATCTGATATCATGAGTTGCATTTT  
 ACAGAATTACAACCGACCCCAAGTATGATGGCATTAGCCATCCCAATTGCAAGTAAATTCCTCCACAGAGGC  
 AACAAAGGAAGTGTGACGAATAATGTCTAACTACCTGTCTCTGGCTGCAATTACCAAGGCAGATCTCCTGG  
 CTGATCACACGGAAGTTATAGTAAAGAGCATACTCCAAGTT

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC229641 representing NM\_001167917  
 Red=Cloning site Green=Tags(s)

MHQLFRLVLGQKDL SRAGDLFSLDDSEIEDSLTEALEQIKIISSSDYQTNNDQAVVEICITRITTAIR  
 ETESIEKHAKALVGLWDSLEHNL RPFKDEDTPHAKIASDIMSCILQNYNRPVVMALAIPIAVKFLHRG  
 NKELCRNMSNYLSLAAITKADLLADHTEVIVKSILQV

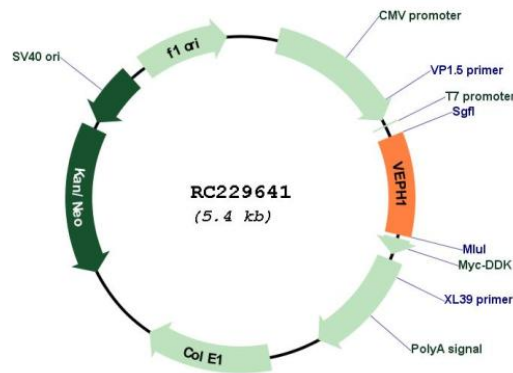
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001167917

**ORF Size:** 531 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001167917.1</a></u> , <u><a href="#">NP_001161389.1</a></u>
<b>RefSeq ORF:</b>	534 bp
<b>Locus ID:</b>	79674
<b>UniProt ID:</b>	<u><a href="#">Q14D04</a></u>
<b>Cytogenetics:</b>	3q25.31-q25.32
<b>MW:</b>	20.2 kDa
<b>Gene Summary:</b>	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]