

Product datasheet for **RC229698**

VEPH1 (NM_001167916) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VEPH1 (NM_001167916) 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:	>RC229698 representing NM_001167916 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCATCAACTGTTTCAGACTGGTTTTGGGACAAAAGATCTTTCACGAGCTGGGGACCTCTTCTCCTTAG
ATGACTCTGAGATTGAAGACAGCCTTACAGAAGCTTTGGAGCAAATTAAGATAATTAGCTCATCTTCAGA
TTACCAAACCAATAACAATGACCAGGCAGTAGTTGAAATCTGTATCACAAGAATCACAACAGCCATCAGA
GAGACCGAGTCCATTGAAAAGCATGCAAAGGCCCTTGTGGGGCTCTGGGACTCCTGCTTGGAACATAACC
TGAGACCCTTTGGGAAAGACGAAGACACTCCTCATGCAAAAATCGCATCTGATATCATGAGTTGCATTTT
ACAGAATTACAACCGACCCCAAGTATGATGGCATTAGCCATCCCCATTGCAGTGAAATTCCTCCACAGAGGC
ACAAGGAAGTGTGACGGAATAAGTCTAACTACCTGTCTCTGGCTGCAATTACCAAGGCAGATCTCCTGG
CTGATCACACGGAAGTTATAGTAAAGAGCATACTCCAAGGTATGGTGCGAAAGTTGAGCTTGGGGACATG
TTTTGGGAGATTTTAAAAGTATTTTCATCAAGCATTTATGGTTTGTGGGAAGCAAGACCTAGAGTATTA
GAAGCAAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC229698 representing NM_001167916
 Red=Cloning site Green=Tags(s)

MHQLFRLVLGQKDL SRAGDLFSLDDSEIEDSLTEALEQIKIISSSSDYQTNNDQAVVEICITRITTAIR
 ETESIEKHAKALVGLWDSCLEHNL RPF GKDEDTPHAKIASDIMSCILQNYNRPVPMALAPIAVKFLHRG
 NKELCRNMSNYLSLAAITKADLLADHTEVIVKSI LQGMVRKLSLGT C FGRYLKVFSSSIYGLWEARPRVL
 EAN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

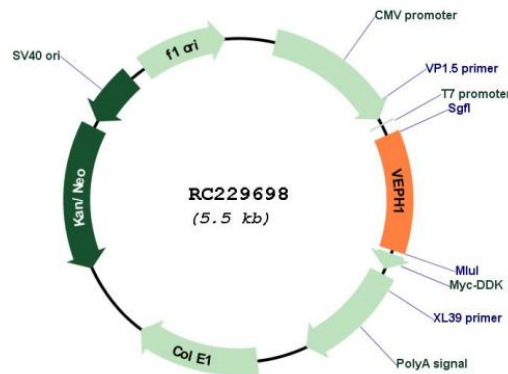
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001167916

ORF Size: 639 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_001167916.2
RefSeq ORF:	642 bp
Locus ID:	79674
UniProt ID:	Q14D04
Cytogenetics:	3q25.31-q25.32
MW:	24.3 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]