

Product datasheet for **RC230499**

VEPH1 (NM_001167911) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VEPH1 (NM_001167911) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VEPH1
Synonyms:	MELT; VEPH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC230499 representing NM_001167911
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCATCAACTGTTTCAGACTGGTTTTGGGACAAAAAGATCTTTACAGACTGGGGACCTCTTCTCCTTAG
 ATGACTCTGAGATTGAAGACAGCCTTACAGAAGCTTTGGAGCAAATTAAGATAATTAGCTCATCTTCAGA
 TTACCAAACCAATAACAATGACCAGGCAGTAGTTGAAATCTGTATCACAAGAATCACAACAGCCATCAGA
 GAGACCGAGTCCATTGAAAAGCATGCAAAGGCCCTTGTGGGGCTCTGGGACTCCTGCTTGGAACATAACC
 TGAGACCCCTTTGGGAAAGACGAAGACACTCCTCATGCAAAAATCGCATCTGATATCATGAGTTGCATTTT
 ACAGAATTACAACCGACCCCAAGTATGCTAACTACCTGTCTCTGGCTGCAATTACCAAGGCAGATCTCCTGG
 AACAGGAACTGTGCAGGAATATGTCTAACTACCTGTCTCTGGCTGCAATTACCAAGGCAGATCTCCTGG
 CTGATCACACGGAAGTTATAGTAAAGAGCATACTCCAAGGTAACACCATGTTGTTGAGAGTGTACCTGC
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 GAACAGCCAGAACAGTACCATCTACTACGGCTTTTGCATGTAGCAGCAAAGAAAAACAACCTCGAGGTAG
 TTCAGAAGTGTATTCTTTCTAATTGGGCATTTGAAGGATTCACCCATAATGACATCATCCTAAACAT
 CCTCATAGAGATAGCAGTCTATGAGCCAGTGGCTTTGAACAGTTTTCTTCCAATGCTGAAAGAGATTGGT
 GAGAGATCCCCTACCTCACTGGACAGATGGCAAGGATTTATGGAGCTGTTGGGCATGTGGATGAAGAGA
 GAGCCAGGAGTGCCTGACATACCTGGTGGCAACTGGCCAACATGGAGCATTGTTTACCATATTCT
 CCTGCTGGAGATTAAGCATCACCGACACCTTCTCCTCAATCTTGGCCCTCAGAGCAGAGACATCTTC
 CGCATGAGCAACAGCTTACCAGCATTGCTAACTCCTTACCCGACAACCTGAAAAATACCAAGGCTGAA
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 TGAATAATGAAGACCATGAAAAACTCCAAGTTAAATCCAGGCTTTTGAAGACAAGATAAATGCAGGGAGC
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 AAGCTGCCGTTTAAAGACAGACTGAGAGATCACAGCTGGGGAGTCTTCAGTTTCATACCCAAATATTA
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 TGCAAGTCTATAGAATACCAAGATAAGCTCTACTTGCACCTAAAAAAAACCTCAGCAAAGTGAAGCA
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 GCTTAAAGAGAAGCAAGTCAAGTGAAGTTCATCAAAAGGTGGAACACGCTATTTTACACTGGCTGGA
 AATCAACTTCTGTTTCAAAAAGGAAAGTCTAAAGATGACCCTGACGACTGCCAATAGAACTCAGCAAAG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC230499 representing NM_001167911
 Red=Cloning site Green=Tags(s)

MHQLFRLVLGQKDL SRAGDLFSLDDSEIEDSLTEALEQIKIISSSSDYQTNNDQAVVEICITRITTAIR
 ETESIEKHAKALVGLWDSLEHNL RPF GKDEDTPHAKIASDIMSCILQYNRPPVMALAPIAVKFLHRG
 NKELCRNMSNYLSLAAITKADLLADHTEVIVKSILQGNTMLLRVLPVYVEKQPQPINRHLELLALMSQL
 EQPEQYHLLRLLHVAAKKKQLEVVQKCI PFLIGHLKDSTHNDIILNILEIAVYEPVALNSFLPMLKEIG
 ERFPYLTQMARIYGAVGHVDEERARSCLTYLVSQLANMEHSFHHILLLEIKSITDTFSSILGPQSRDIF
 RMSNSFTAIAKLLTRQLENTKAGSGRRKISTEIEFPEKLEETKLI VTENEDHEKLQVKIQAFEDKINAGS
 NTPGSIRRYSLGQVSKEERKNIRFNRSKSLAFHTMLTKGVGSDDGEDENRGDIPASISLSEIDPLGQGN
 KLPFKTDTERSQLGESSVSYPNIIHIDSENLPETVKENSQEETPETTASPIEYQDKLYLHLKKNLSKVKA
 YAMEIGKKIPVPDQCTIEDTVRSCVAKLFFTC SLKGHYCLYSKSSFILISQEPQWIQIMFLFQQDLQV
 QLHLEEVRFDFVGFSETAGAWQCFMCNNPEKATVVNQDGQPLIEGKLEKQVRWKFIKRWKTRYFTLAG
 NQLLFQK GKSKDDPDDCPIELSKVQSVKAVAKRRDRSLPRAFEIFTDNKTYVFKAKDEKNAEEWLQCIN
 VAVAQAKERESREVTTYL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_001167911

ORF Size: 2364 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_001167911.1](#), [NP_001161383.1](#)

RefSeq ORF: 2367 bp

Locus ID: 79674

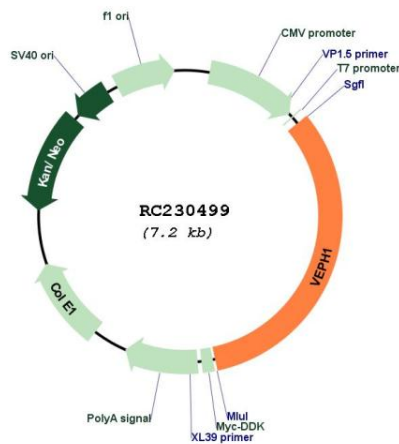
UniProt ID: [Q14D04](#)

Cytogenetics: 3q25.31-q25.32

MW: 90.1 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]

Product images:



Circular map for RC230499