

Product datasheet for **RG230522**

VEPH1 (NM_001167912) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VEPH1 (NM_001167912) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	VEPH1
Synonyms:	MELT; VEPH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG230522 representing NM_001167912
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCATCAACTGTTCAGACTGGTTTTGGGACAAAAAGATCTTTACAGAGCTGGGACCTCTTCTCCTTAG
 ATGACTCTGAGATTGAAGACAGCCTTACAGAAGCTTTGGAGCAAATTAAGATAATTAGCTCATCTTCAGA
 TTACCAAACCAATAACAATGACCAGGCAGTAGTTGAAATCTGTATCACAAGAATCACAACAGCCATCAGA
 GAGACCGAGTCCATTGAAAAGCATGCAAAGGCCCTTGTGGGGCTCTGGGACTCCTGCTTGGAACATAACC
 TGAGACCCCTTTGGGAAAGACGAAGACACTCCTCATGCAAAAATCGCATCTGATATCATGAGTTGCATTTT
 ACAGAATTACAACCGACCCCAAGTATGCTAACTACCTGTCTCTGGCTGCAATTACCAAGGCAGATCTCCTGG
 AACAGGAACTGTGCAGGAATATGTCTAACTACCTGTCTCTGGCTGCAATTACCAAGGCAGATCTCCTGG
 CTGATCACACGGAAGTTATAGTAAAGAGCATACTCCAAGGTAACACCATGTTGTTGAGAGTGTACCTGC
 TGTGTATGAAAAGCAGCCTCAGCCAATTAATAGACACCTGACAGAACTCCTGGCCTTGATGTCTCAGCTG
 GAACAGCCAGAACAGTACCATCTACTACGGCTTTTGCATGTAGCAGCAAAGAAAAACAACCTCGAGGTAG
 TTCAGAAGTGTATTCTTTCTAATTGGGCATTTGAAGGATTCAACCCATAATGACATCATCCTAAACAT
 CCTCATAGAGATAGCAGTCTATGAGCCAGTGGCTTTGAACAGTTTTCTTCCAATGCTGAAAGAGATTGGT
 GAGAGATCCCCTACCTCACTGGACAGATGGCAAGGATTTATGGAGCTGTTGGGCATGTGGATGAAGAGA
 GAGCCAGGAGCTGCCTGACATACCTGGTGGCCAACTGGCCAACATGGAGCATTGTTTACCATATTCT
 CCTGCTGGAGATTAAGCATCACCGACACCTTCTCCTCAATCTTGGCCCTCAGAGCAGAGACATCTTC
 CGCATGAGCAACAGCTTACCAGCATTGCTAACTCCTTACCCGACAACCTGAAAAATACCAAGGCTGGAA
 GTGGCAGGAGAAAAATCAGCACTGAAATTTGAATTCCTGAGAACTGGAAGAAACCAAGTATAGTAA
 TAAAAATGAAGACCATGAAAAACTCCAAGTTAAAAATCCAGGCTTTTGAAGACAAGATAAATGCAGGGAGC
 AATACCCCTGGCTCTATCAGAAGATATAGTCTGGGCAAGTTTCTAAAGAAGAAAGAAAAACATTAGAT
 TTAACAGGTCAAAAAGTTTGGCTTTCCACACTATGCTCACAAGGGTGTGGGTTCCAGATGACGGCGAAGA
 TGAACAGGGGAGACATACCAGCCAGCATCTCTTTTCAGAAATAGACCCACTTGGCCAAGGAAATGAC
 AAGCTGCCGTTTAAAGACAGACTGAGAGATCACAGCTGGGGAGTCTTCAGTTTCATACCCAAATATTA
 TACATATAGACTCAGAGAATTTGTCAGAACTGTTAAAGAAAACCTCCAGGAAGAACTCCAGAGACAAC
 TGCAAGTCTATAGAATACCAAGATAAGCTCTACTTGCCTTAAAAAAAACCTCAGCAAAGTGAAGCA
 TATGCCATGGAAATTTGAAAGAAGATCCAGTCCCTGATCAGTGTACCATTGAAGACACTGTGAGAAGTT
 GTGTAGCAAAGTTGTTTTCACCTGCTCCTGAAGGGTCACTACTGCCTATACAGTAAGTCCAGTTTAT
 TCTCATCAGCAAGAACCTCAGCCATGGATCCAGATCATGTTTCTATTTCCAGCAGAGCCTGTTTCTGAA
 CCCCTGTCCATTGAGTCACTTCTGTGCAATTCCTCAGAGCTCTGTGGGAGAAGACCCAGGCAGGGGGTG
 CTCACAGCTTTGAAACTGCCATGATGGAGTCCACGTTTCCACAGCAGAAGGATCTGGACCAGGTACAGCT
 CCATCTGGAAGAAGTGAAGTTCTTTGACGTGTTGGCTTCAGTGAACAGCAGGAGCATGGCAATGCTTC
 ATGTGCAACAATCCTGAGAAAGCAACTGTTGTAATCAAGATGGCCAGCCTCTCATAGAAGGAAAACCTTA
 AAGAGAAGCAAGTCAAGTGAAGTTCATCAAAAGTGGAAAACACGCTATTTTACTGGCTGGAAATCA
 ACTTCTGTTTCAAAAAGGAAAGTCTAAAGATGACCCCTGACGACTGCCAATAGAACTCAGCAAAGTACAG
 AGTGTGAAGGCTGTGGCCAAGAAACGCAGGACCCTCTCTCCCGGGCTTTTGAATCTTCACAGACA
 ATAAAACCTATGTCTTTAAGCCAAAGGATGAGAAGAATGCAGAAGAATGGCTCCAGTGCATCAACGTGGC
 AGTTGCCCAAGCCAAAGAAAGGAAAGTAGAGAAGTAACACATATCTG

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG230522 representing NM_001167912
Red=Cloning site Green=Tags(s)

MHQLFRLVLGQKDL SRAGDLFSLDDSEIEDSLTEALEQIKIISSSSDYQTNNDQAVVEICITRITTAIR
ETESIEKHAKALVGLWDSLEHNL RPF GKDEDPHAKIASDIMSCILQYNRPPVMALAPIAVKFLHRG
NKELCRNMSNYLSLAAITKADLLADHTEVIVKSILQGNTMLLRVLPAYYEKQPQPINRHLELLALMSQL
EQPEQYHLLRLLHVAAKKKQLEVVQKIPFLIGHLKDSTHNDIILNILEIAVYEPVALNSFLPMLKEIG
ERFPYLTGQMARIYGAVGHVDEERARSCLTYLVSQLANMEHSFHHILLLEIKSITDTFSSILGPQSRDIF
RMSNSFTAIAKLLTRQLENTKAGSGRRKISTEIEFPEKLEETKLIVTENEDHEKLQVKIQAFEDKINAGS
NTPGSIRRYSLGQVSKEERKNIRFNRSKSLAFHTMLTKGVGSDDGEDENRGDIPASISLSEIDPLGQGN
KLPFKTDTERSQLGESSVSYPNIIHIDSENLSETVKENSQEETPETTASPIEQDKLYLHLKKNLSKVKA
YAMEIGKKIPVPDQCTIEDTVRSCVAKLFFTC SLKGHYCLYSKSSFILISQEPQPWIQIMFLFQQSLFPE
PLSIQSHSVQFLRALWEKTQAGGAHSFETAMMESTFPQQKDLQVQLHLEEVRFDFVGFSETAGAWQCF
MCNNPEKATVVNQDQPLIEGKLEKQVRWKFIKRWKTRYFTLAGNQLLFQKKGSKDDPDDCPIELSKVQ
SVKAVAKRRDRSLPRAFEIFTDNKTYVFKAKDEKNAEEWLQGINVAVAQAKERESREVTYYL

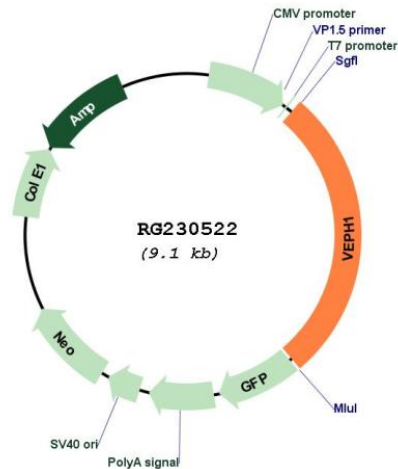
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_001167912

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_001167912.2](#)

RefSeq Size: 4122 bp

RefSeq ORF: 2502 bp

Locus ID: 79674

UniProt ID: [Q14D04](#)

Cytogenetics: 3q25.31-q25.32

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]