

## Product datasheet for **RN204146**

### Veph1 (NM\_001014171) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Veph1 (NM_001014171) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Veph1
Synonyms:	RGD1308217
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN204146 representing NM\_001014171  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCACCAACTTTTCAGATTGGTTTTGGGACAAAAAGATCTTTCAAGAGCTGGGGACCTCTTCTCTTTAG  
 ATGACCGCTGAGATAGAAGACAGCCTGACAGAAGCTTTGGAGCAGATTAAGTAATTAGCTCATCTTTGGA  
 TTATCAAATAAACAATGACCAGGCAGTGGTTGAAATCTGTATCACGAGGATTACAACAGCCATCAGA  
 GAGACGGAATCCATTGAAAAGCACGCCAGGGCCCTGGTGGGACTGTGGGATTCTGCTTGGAGCACAACC  
 TGAGACCTGCAGGGAAAGACGAAGATACTCCACACGCTAAAATCGCATCCGATATCATGAGTTGTATCTT  
 ACAAAATTACAACCGACCCCTGTGATGGTCTTAGCTGTACCCATCGCAGTGAAATTCCTCCACAGAGGC  
 AGCAAGGAGCTGTGTAGGAACATGTCCAACCTACCTGTCTTGGCTGCCATACCAAGGCCGATCTCTGG  
 CTGACCACACTGAAGGGATAGTAAAGAGCATACTCCAAGGAAATGCCATGCTACTGAGGGTGTGCCTGC  
 TGTGTATGAAAAGCAGCCCCAACCAATCAACAGGCACCTGGCAGAACTCTGGCCTTGATGTCTCAATTG  
 GAGCAGACAGAACAGTACCATCTACTACGGCTTCTCCATGTAGCAGCAAAGAGAAAAGATGTGGAGGTGG  
 TTCAGAAATGTGTTCTTCTGATCAGAAACCTGAAGGAGTCAACCTATAATGACATCATCTGAAACAT  
 CCTCATAGAAATAGCAGGCCATGAGCCGCTGGCCTTGAACAGTTTTCTCCAATGCTGAAAGAGATTGCA  
 GAGCAATCCCCTACCTCACTGGACAAATGGCGAGGATCTTTGGTGTCTTGGGCATGTGGATGAAGAGA  
 GAGCCAGGAGCTGCCTACGGTACCTGGTGGAGCAGCTGGTAACATGGAGCATTCAATCCACCACATTCT  
 CCTGCTGGAAATTAAGAGTCTCACAGATGCCTTCTCTCCATTCTGGGCCCTCACAGCAGGGACATCTTC  
 CGAATGAGCAACAGCTTCAACAACATCGCAAGCTGCTTCCCGACAACCTGAAAAACAGCAAGCCGAGAG  
 GTGGCAGGAGAAGAACCAGCACTGAAGTTAGCTTCTGAGAAATTCAGAGAACCAGCAAGCCATGGAGCC  
 TAAAAGTGAAAGACCACGAAAAACTCCAAGTTAAAATCCAGGCCTTGAAGATAAAAATAAATGCTGAGAGC  
 CATAACCCCTGGCTCTGTCCGGAGATACAGTTTAGACCAGTCTCCAAGGAAGAACGAAAAACGTTTCGAT  
 TTAGCAGGTCCAGAAGTTTGGCTTTGAATACTGTGCTCACAAACAGTGTGAATGTGGAAGACGGAGAAAT  
 CGAAGGAAAGACAGGAATGCATGCCAGCATCTCGCTTTCAGAAATAGACCCACCTGGCCACGGAATTGGC  
 AAGGTGCCCTTTAAGACGGATACCCATGGATCACAGCTGAGAAATTCCTCAGCTTACACCCAAGTATTA  
 TACACAGTGAACCAGAAAATATGCCTGAAACTTTTAAAGAAAACGTCGAAGAAGAAATTCAGAGGGCGC  
 CATAAGTCTGTGAATACCAAGATAAGCTCTACTTACACTTAAAGGAAAACCTCAGCAAAGTGAAGGCA  
 TACGCCCTTGGAAATCGCAAAAAAAGTCCCAATCCAGACCAGTGCACCATTGAAGATAATACGAGAAGCT  
 GTGTGGCAAAGCTGTTCTTTACGTGTTCTGTTAAAGGGTCACTACTGCCTATACAGCAAGTCCAGTTTAC  
 CCTTGTACAGCAAGCCCCCAGCCATGGATTGAGATCATGTTTCTCTTCCAACAGAGCCTGTTTCTGAG  
 CCCCTGTCCATTGAGTGGCTCGGTGCAGTTCCTCAAGGCCCTATGGGAGAAGACACAGGGCACAGGAA  
 CCCACAGCTTTGAGGTCGCCATGACAGAGTCCACATTTCCACAGCAGAAGGATCTGGACCAGCTTACGCT  
 CCATCTGGAAGAAGTGGGTTCTTTGATGTGTTTGGCTTCAGCGAAACAGCAGGGGCATGGCAATGCTTC  
 ATGTGTAACAACCCCGAAAAGGCAACTGTTATAAATCAAGATGGCCAGCCTCTCATTGAAGGAAAGCTTA  
 AGGAGAAAACAGTGAAGTGAAGTTCATCAAGAGGTGAAAACACGTTATTTTACTGGCTGAAAACCA  
 ACTTCTGTTTCAAAGGGGAAAATCTGACGACCCCGATGATTCCTCCGATAGAACTCAGCAAAGTACAGAGC  
 GTGAAAGCTGTGGCCAAGAAGCTCGGGACCGCTCTCTCCCTCGGGCTTTTGAATCTTACAGACAATA  
 AGACCTATGTTTTCAAAGCCAAGGATGAGAAAAACGACAGAGGAGTGGCTGCAAGTCAACGTGGCGCT  
 GGCCAGGCAAAGGAGAGGGAGACCGAGAAGTAACCACATATCT**GTAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001014171  
**Insert Size:** 2499 bp

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>	<a href="#">NM_001014171.1</a> , <a href="#">NP_001014193.1</a>
<b>RefSeq Size:</b>	3068 bp
<b>RefSeq ORF:</b>	2499 bp
<b>Locus ID:</b>	361954
<b>UniProt ID:</b>	<a href="#">Q5PQS3</a>
<b>Cytogenetics:</b>	2q31
<b>Gene Summary:</b>	Interacts with TGF-beta receptor type-1 (TGFB1) and inhibits dissociation of activated SMAD2 from TGFB1, impeding its nuclear accumulation and resulting in impaired TGF-beta signaling. May also affect FOXO, Hippo and Wnt signaling.[UniProtKB/Swiss-Prot Function]