

## Product datasheet for **RC237915**

### **VRK2 (NM\_001288836) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	VRK2 (NM_001288836) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VRK2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237915 representing NM_001288836 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTAATGGAAGACTAGGAATAGATTTACAGAAGATCTCAGGCCAGAATGGTACCTTTAAAAAGTCAA  
CTGTCTGCAATTAGGTATCCGAATGTTGGATGTACTGGAATATATACATGAAAAAAGAATATGTTTCATGG  
TGATATAAAGCAGCAAATCTACTTTTGGGTTACAAAAATCCAGACCAGGTTTATCTTGAGATTGGA  
CTTTCCTACAGATATTGTCCAATGGGAACCAACAGTATCAGGAAAAATCCTAGAAAAAGCCATAATG  
GGACAATAGAGTTTACCAGCTTGGATGCCACAAAGGGAGTAGCCTTGCCAGACGAAGTGACGTTGAGAT  
CCTCGGCTACTGCATGCTGCGGTGGTGTGGGAAACTTCCCTGGGAACAGAACCTGAAGGACCCTGTG  
GCTGTGCAGACTGCTAAAACAAATCTGTTGGACGAGCTCCCCAGTCAGTGCTTAAATGGGCTCCTTCTG  
GAAGCAGTTGCTGTGAAATAGCCCAATTTTTGGTATGTGCTCATAGTTTAGCATATGATGAAAAGCCAAA  
CTATCAAGCCCTCAAGAAAAATTTGAACCCTCATGGAATACCTTTAGGACCACTGGACTTTCCACAAAA  
GGACAGAGTATAAATGTCCATACTCAAACAGTCAAAAAGTTGATTCACAAAAGGCTGCAACAAAGCAAG  
TCAACAAGGCACACAATAGGTTAATCGAAAAAAAAGTCCACAGTGAGAGAAGCGCTGAGTCTGTGCAAC  
ATGGAAAGTGCAGAAAGAGGAGAACTGATTGGATTGATGAACAATGAAGCAGCTCAGGAAAGCACAAAGG  
AGAAGACAGAAATATCAAGAGTCTCAAGAACCTTTGAATGAAGTAAACAGTTTCCACAAAAAATCAGCT  
ATACACAATCCCAAACCTATTTATGAGCCTCATCAAGATTTTACCAGTCCAGATATATCAAGAAGTC  
AAGATCTCCATCTTGGTATAAATACACTTCCACAGTCAGCACGGGGATCAGACTTAGAAAAGTTCAACT  
GGACTTTGGCCTACAATTTCCAGTTTACTCTTAGTGAAGAGACAAACGCAGATGTTTATTATTATCGCA  
TCATCATACCTGTCTTTTGGATGTTAGTATTTCTTGCTTATTTTTTCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237915 representing NM\_001288836  
 Red=Cloning site Green=Tags(s)

MVMERLGLDLQKISGQNGTFKKSTVLQLGIRMLDVLEIHNENEYVHGDIIKAANLLLGYKNPDQVYLADYGLSYRYCPNGNHKQYQENPRKGHNGTIEFTSLDAHKGVALSRRSDVEILGYCMLRWLGGKLPWEQNLKDPVAVQTAKTNLLDELQSVLKWAPSGSSCCEIAQFLVCAHSLAYDEKPNYQALKKILNPHGIPLGPLDFSTKGQSINVHTPNSSQKVDSSQKAATKQVNKAHNRLIEKKVHSERSAESCATWKVQKEEKLIGLMNNEAAQESTRRQKYQESQEPLNEVNSFPQKISYTFPNSEYEPHQDFTSPDIFKKSRSPSWYKYTSTVSTGITDLESSTGLWPTISQFTLSEETNADVYYYYRIIIPVLLMLVFLALFFL

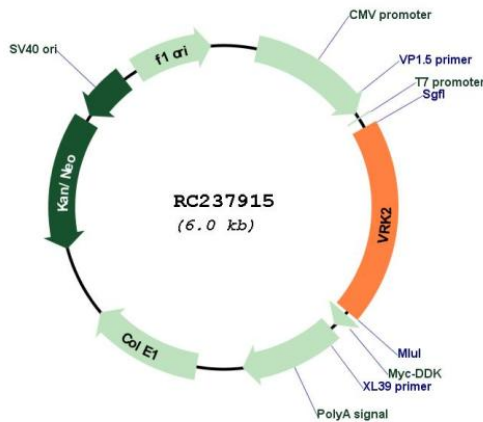
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001288836

<b>ORF Size:</b>	1170 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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>	<a href="#">NM_001288836.1</a> , <a href="#">NP_001275765.1</a>
<b>RefSeq Size:</b>	2076 bp
<b>RefSeq ORF:</b>	1173 bp
<b>Locus ID:</b>	7444
<b>UniProt ID:</b>	<a href="#">Q86Y07</a>
<b>Cytogenetics:</b>	2p16.1
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Transmembrane
<b>MW:</b>	44.9 kDa
<b>Gene Summary:</b>	This gene encodes a member of the vaccinia-related kinase (VRK) family of serine/threonine protein kinases. The encoded protein acts as an effector of signaling pathways that regulate apoptosis and tumor cell growth. Variants in this gene have been associated with schizophrenia. Alternative splicing results in multiple transcript variants that differ in their subcellular localization and biological activity. [provided by RefSeq, Jan 2014]