

Product datasheet for **RC237916**

VRK2 (NM_001288839) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VRK2 (NM_001288839) 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:	>RC237916 representing NM_001288839 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTAATGGAAAGACTAGGAATAGATTTACAGAAGATCTCAGGCCAGAATGGTACCTTTAAAAAGTCAA
CTGTCTCGCAATTAGGTATCCGAATGTTGGATGTACTGGAATATATACATGAAAAAAGAATATGTTTCATGG
TGATATAAAAGCAGCAAATCTACTTTTGGGTTACAAAAATCCAGACCAGGTTTATCTTGAGATTGGA
CTTTCCTACAGATATTGTCCAATGGGAACCAACAACAGTATCAGGAAAAATCCTAGAAAAGGCCATAATG
GGACAATAGAGTTTACCAGCTTGGATGCCACAAAGGGAGTAGCCTTGCCAGACGAAGTGACGTTGAGAT
CCTCGGCTACTGCATGCTGCGGTGGTGTGGGAAACTTCCCTGGGAACAGAACCTGAAGGACCTGTG
GCTGTGCAGACTGCTAAAACAAATCTGTTGGACGAGCTCCCCAGTCAGTGCTTAAATGGGCTCCTTCTG
GAAGCAGTTGCTGTGAAATAGCCCAATTTTGGTATGTGCTCATAGTTTAGCATATGATGAAAAGCCAAA
CTATCAAGCCCTCAAGAAAATTTGAACCCTCATGGAATACCTTTAGGACCACTGGACTTTCCACAAAA
GGACAGAGTATAAATGTCCATACTCCAACAGTCAAAAAGTTGATTCACAAAAGGCTGCAACAAAGCAAG
TCAACAAGGCACACAATAGGTTAATCGAAAAAAAAGTCCACAGTGAGAGAAGCGCTGAGTCTGTGCAAC
ATGGAAAAGTGCAGAAAGAGGAGAAACTGATTGGATTGATGAACAATGAAGCAGCTCAGGAAAGCACAAAGG
AGAAGACAGAAATATCAAGAGTCTCAAGAACCTTTGAATGAAGTAAACAGTTTCCACAAAAAATCAGCT
ATACACAATCCCAAACCTATTTATGAGCCTCATCAAGATTTTACCAGTCCAGATATATTCAGAAGTCA
AAGATCTCCATCTTGGTATAAATACACTTCCACAGTCAGCACGGGGATCAGACTTAGAAAAGTTCAACT
GGACTTTGGCCTACAATTTCCAGTTTACTCTTAGTGAAGAGACAAACGCAGATGTTTATTATTATCGCA
TCATCATACCTGTCTTTTGGATGTTAGTATTTCTTGCTTATTTTTTCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237916 representing NM_001288839
Red=Cloning site Green=Tags(s)

MVMERLGLDLQKISGQNGTFKKSTVLQLGIRMLDVLEYIHENEYVHGDIIKAANLLLGYKNPDQVYLADYGLSYRYCPNGNHKQYQENPRKGHNGTIEFTSLDAHKGVALSRRSDVEILGYCMLRWLGGKLPWEQNLKDPVAVQTAKTNLLDELQSVLKWAPSGSSCCEIAQFLVCAHSLAYDEKPNYQALKKILNPHGIPLGPLDFSTKGQSINVHTPNSSQKVDSSQKAATKQVNKAHNRLIEKKVHSERSAESCATWKVQKEEKLIGLMNNEAAQESTRRQKYQESQEPLNEVNSFPQKISYTFPNSEYEPHQDFTSPDIFKKSRSPSWYKYTSTVSTGITDLESSTGLWPTISQFTLSEETNADVYYYYRIIIPVLLMLVFLALFFL

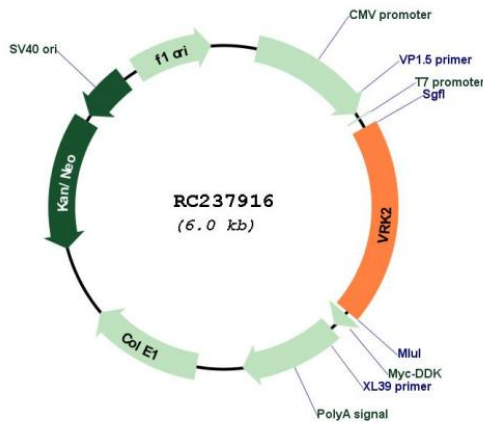
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001288839

ORF Size:	1170 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_001288839.1 , NP_001275768.1
RefSeq Size:	1916 bp
RefSeq ORF:	1173 bp
Locus ID:	7444
UniProt ID:	Q86Y07
Cytogenetics:	2p16.1
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
MW:	44.9 kDa
Gene Summary:	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]