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Product datasheet for RC225615

VRK2 (NM_001130483) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VRK2 (NM_001130483) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VRK2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC225615 representing NM_001130483
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCACCAAAAAGAAATGAAAAATACAAACTTCCTATTCCATTTCCAGAAGGCAAGGTTCTGGATGATA
TGGAAGGCAATCAGTGGGTACTGGGCAAGAAGATTGGCTCTGGAGGATTTGGATTGATATATTTAGCTTT
CCCCACAAATAAACCAGAGAAAGATGCAAGACATGTAGTAAAAGTGGAATATCAAGAAAATGGCCCGTTA
TTTTCAGAACTTAAATTTTATCAGAGAGTTGCAAAAAAAAGACTGTATCAAAAAGTGGATAGAACGCAAAC
AACTTGATTATTTAGGAATTCCTCTGTTTTATGGATCTGGTCTGACTGAATTCAAGGGAAGAAGTTACAG
ATTTATGGTAATGGAAAGACTAGGAATAGATTTACAGAAGATCTCAGGCCAGAATGGTACCTTTAAAAAG
TCAACTGTCCTGCAATTAGGTATCCGAATGTTGGATGTACTGGAATATATACATGAAAATGAATATGTTC
ATGGTGATATAAAAGCAGCAAATCTACTTTTGGGTTACAAAAATCCAGACCAGGTTTATCTTGCAGATTA
TGGACTTTCCTACAGATATTGTCCCAATGGGAACCACAAACAGTATCAGGAAAATCCTAGAAAAGGCCAT
AATGGGACAATAGAGTTTACCAGCTTGGATGCCCACAAGGGAGTAGCCTTGTCCAGACGAAGTGACGTTG
AGATCCTCGGCTACTGCATGCTGCGGTGGTTGTGTGGGAAACTTCCCTGGGAACAGAACCTGAAGGACCC
TGTGGCTGTGCAGACTGCTAAAACAAATCTGTTGGACGAGCTCCCCCAGTCAGTGCTTAAATGGGCTCCT
TCTGGAAGCAGTTGCTGTGAAATAGCCCAATTTTTGGTATGTGCTCATAGTTTAGCATATGATGAAAAGC
CAAACTATCAAGCCCTCAAGAAAATTTTGAACCCTCATGGAATACCTTTAGGACCACTGGACTTTTCCAC
AAAAGGACAGAGTATAAATGTCCATACTCCAAACAGTCAAAAAGTTGATTCACAAAAGGCTGCAACAAAG
CAAGTCAACAAGGCACACAATAGGTTAATCGAAAAAAAAGTCCACAGTGAGAGAAGCGCTGAGTCCTGTG
CAACATGGAAAGTGCAGAAAGAGGAGAAACTGATTGGATTGATGAACAATGAAGCAGCTCAGTTTAGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC225615 representing NM_001130483
Red=Cloning site Green=Tags(s)

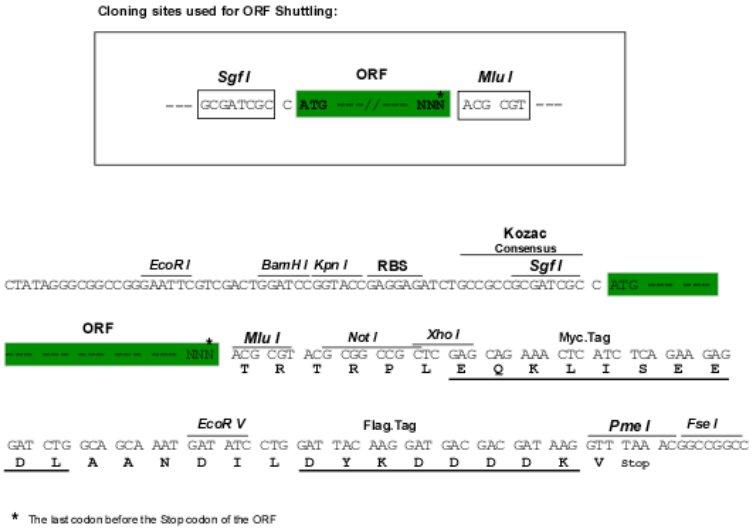
MPPKRNEKYKLPIPFPEGKVLDDMEGNQWVLGKKIGSGGFGLIYLAFPTNKPEKDARHVVKVEYQENGPL
FSELKFYQRVAKKDCIKKWIERKQLDYLGIPLFYGSGLTEFKGRSYRFMVMERLGIDLQKISGQNGTFKK
STVLQLGIRMLDVLEYIHENEYVHGDIKAANLLLGYKNPDQVYLADYGLSYRYCPNGNHKQYQENPRKGH
NGTIEFTSLDAHKGVALSRRSDVEILGYCMLRWLCGKLPWEQNLKDPVAVQTAKTNLLDELPQSVLKWAP
SGSSCCEIAQFLVCAHSLAYDEKPNYQALKKILNPHGIPLGPLDFSTKGQSINVHTPNSQKVDSQKAATK
QVNKAHNRLIEKKVHSERSAESCATWKVQKEEKLIGLMNNEAAQFR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8057_a12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001130483

ORF Size: 1188 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001130483.2, NP_001123955.1

RefSeq ORF: 1191 bp

Locus ID: 7444

UniProt ID: Q86Y07

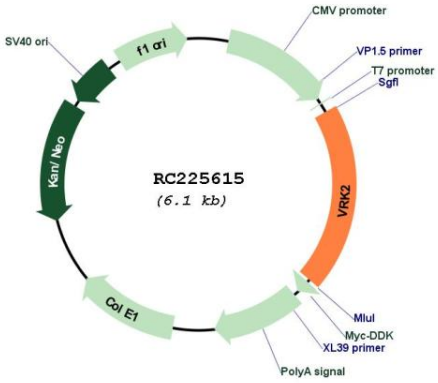
Cytogenetics: 2p16.1

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]

Product images:



Circular map for RC225615