

Product datasheet for **RG224292**

VRK3 (NM_016440) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VRK3 (NM_016440) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	VRK3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG224292 representing NM_016440
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGATCTCCTTCTGTCCAGACTGTGGCAAAAGTATCCAAGCGGCATTCAAATTCTGCCCCTACTGTGGAA
 ATTCTTTGCCTGTAGAGGAGCATGTAGGGTCCCAGACCTTTGTCAATCCACATGTGTCTATCCTTCCAAGG
 CTCAAAGAGAGGGCTGAACTCCAGTTTTTAAACCTCTCCTAAGAAAGTAAATGGTCCAGCACCGTCACC
 TCTCCCGATTATCCCTCTTCTCAGATGGTGACAGTTCTGAGTCTGAAGATACTCTGAGTTCCTCTGAGA
 GATCCAAAGGCTCCGGGAGCAGACCCCCAACCCCAAAAGCAGCCCTCAGAAGACCAGGAAGAGCCCTCA
 GGTGACCAGGGGTAGCCCTCAGAAGACCAGCTGTAGCCCTCAGAAGACCAGGCAGAGCCCTCAGACGCTG
 AAGCGGAGCCGAGTGACCACCTCACTTGAAGCTTTGCCACAGGGACAGTGTGACAGACAAGAGTGGGC
 GACAGTGAAGCTGAAGTCTTCCAGACCAGGGACAACCAGGGCATTCTCTATGAAGCTGCACCCACCTC
 CACCCTCACCTGTGACTCAGGACCACAGAAGCAAAAGTTCTCACTCAAAGTGGATGCCAAGGATGGCGC
 TTGTTCAATGAGCAGAACTTCTTCCAGCGGGCCGCAAGCCTCTGCAAGTCAACAAGTGAAGAAGCTGT
 ACTCGACCCCACTGCTGGCCATCCCTACCTGCATGGGTTTCGGTGTTCACCAGGACAAATACAGGTTCTT
 GGTGTTACCCAGCCTGGGGAGGAGCCTTCAGTCGGCCCTGGATGTGAGCCCAAAGCATGTGCTGTGAGAG
 AGGTCTGTGCTGCAGGTGGCCTGCCGGCTGCTGGATGCCCTGGAGTTCCTCCATGAGAATGAGTATGTTT
 ATGGAAATGTGACAGCTGAAAATATCTTTGTGGATCCAGAGGACCAGAGTCAGGTGACTTTGGCAGGCTA
 TGGCTTCGCCTTCGCTATTGCCAAGTGGCAACACGTGGCCTACGTGGAAGGCAGCAGGAGCCCTCAC
 GAGGGGGACCTTGAGTTCACTAGCATGGACCTGCACAAGGGATGCGGGCCCTCCCGCCGACGACCTCC
 AGAGCCTGGGCTACTGCATGCTGAAGTGGCTCTACGGGTTTCTGCCATGGACAAATTGCCTTCCCAACAC
 TGAGGACATCATGAAGCAAAAACAGAAGTTTGTGATAAGCCGGGGCCCTTCGTGGGACCCCTGCGGTGAC
 TGGATCAGGCCCTCAGAGACCCTGCAGAAGTACCTGAAGTGGTGTGATGGCCCTCACGTATGAGGAGAAGC
 CGCCCTACGCCATGCTGAGGAACAACCTAGAAGCTTTGCTGCAGGATCTGCGTGTGTCTCCATATGACCC
 CATTGGCCTCCCGATGGTGCCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

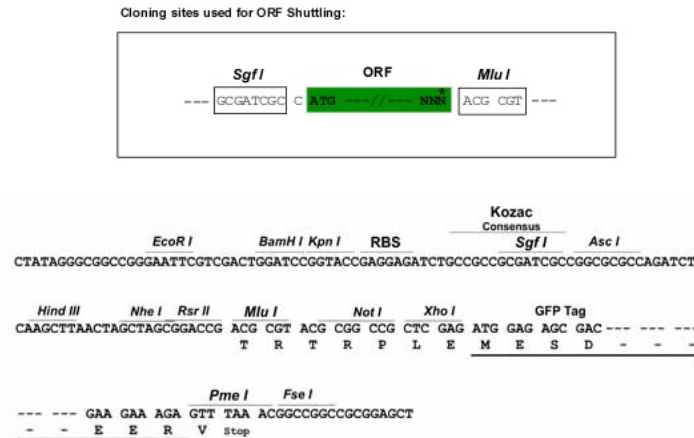
>RG224292 representing NM_016440
 Red=Cloning site Green=Tags(s)

MISFPCDCKSIQAQAFKFCPYCGNSLPVEEHVGSQTFVNPVHVSFQGSKRGLNSSFETSPKKVKWSSTVT
 SPRLSLFSDGDSSEEDTLSSERSKSGSRPPTPKSSPQKTRKSPQVTRGSPQKTSQSPQKTRQSPQTL
 KRSRVTTSLALPTGTVLTDKSGRQWKLKSFQTRDNQILYEAAPTSTLTCDSPQKQKFLSLKLDKDGRL
 LFNEQNFFQRAAKPLQVNWKKLYSTPLLAIPTCMGFGVHQDKYRFLVPSLGRSLQSLDVSPPKHVLS
 RSVLQVACRLLDALEFLHENEYVHGNVTAENIFVDPEDQSQVTLAGYGFAPRYCPSGKHVAYVEGSRSPH
 EGDLEFISMDLHKGCGPSRRSDLQSLGYCMLKWLYGFLPWTNCLPNTEDIMKQKQFVDKPGPFVGPCH
 WIRPSETLQKYLKVMALTYEEKPPYAMLRNNLEALLQDLRVSPYDPIGLPMVP

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_016440

ORF Size: 1422 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_016440.4](#)

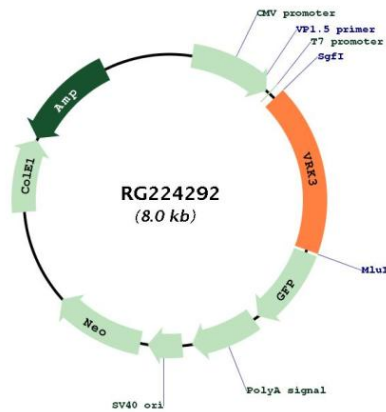
RefSeq Size: 2129 bp

RefSeq ORF: 1425 bp

Locus ID: 51231

UniProt ID:	Q8IV63
Cytogenetics:	19q13.33
Domains:	S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	This gene encodes a member of the vaccinia-related kinase (VRK) family of serine/threonine protein kinases. In both human and mouse, this gene has substitutions at several residues within the ATP binding motifs that in other kinases have been shown to be required for catalysis. In vitro assays indicate the protein lacks phosphorylation activity. The protein, however, likely retains its substrate binding capability. This gene is widely expressed in human tissues and its protein localizes to the nucleus. Alternative splicing results in multiple transcripts encoding different isoforms. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG224292