

Product datasheet for **RG204460**

FRK (NM_002031) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FRK (NM_002031) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FRK
Synonyms:	GTK; PTK5; RAK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG204460 representing NM_002031
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGAGCAACATCTGTGAGAGGCTCTGGGAGTACCTAGAACCTATCTCCCCTGTTTGTCCACGGAGGCAG
 ACAAGTCAACCGTGATTGAAAATCCAGGGGCCCTTTGCTCTCCCAAGTCACAGAGGCATGGCCACTACTT
 TGTGGCTTTGTTTGATTACAGGCTCGGACTGCTGAGGACTTGAGCTTCCGAGCAGGTGACAAACTTCAA
 GTTCTGGACACTTTGCATGAGGGCTGGTGGTTTCCAGACACTTGGAGAAAAGACGAGATGGCTCCAGTC
 AGCAACTACAAGGCTATATTCTTCTAACTACGTGGCTGAGGACAGAAGCCTACAGGCAGAGCCGTGGTT
 CTTTGGAGCAATCGAAGATCAGATGCAGAGAAACAATAATTATTCAGAAAACAAGACCGGTTCTCTTT
 CTAATCAGAGAAAGTGAAGCCAAAAGGAGAATTCTCTCTTTCAGTTTTAGATGGAGCAGTTGTAAAC
 ACTACAGAATTAAGAGCTGGATGAAGGGGGATTTTTCTCACGCGAAGAAGAATCTTTTCAACACTGAA
 CGAATTTGTGAGCCACTACACCAAGACAAGTGACGGCCTGTGTGTCAAGCTGGGGAACCATGCTTAAAG
 ATCCAGGTCCCAGCTCCATTTGATTTGTCGTATAAAACCGTGGACCAATGGGAGATAGACCGCAACTCCA
 TACAGCTTCTGAAGCGATTGGGATCTGGTCAGTTTGGCGAAGTATGGGAAGGTCTGTGGAACAATACCAC
 TCCAGTAGCAGTGAACATTAACAGGTTCAATGGATCCAAATGACTTCTGAGGGAGGCACAGATA
 ATGAAGAACCTAAGACATCCAAAGCTTATCCAGCTTTATGCTGTTTGCACCTTAGAAGATCCAAATTTATA
 TTATTACAGAGTTGATGAGACATGGAAGCTGCAAGAATATCTCCAAATGACACTGGATCAAAAATCCA
 TCTGACTCAACAGGTAGACATGGCGGCACAGGTTGCCTCTGGAATGGCCTATCTGGAGTCTCGGAACAC
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 GACTTGCAGAGTTTTTAAGGTAGATAATGAAGACATCTATGAATCTAGACACGAAATAAAGCTGCCGGT
 GAAGTGGACTGCGCCCGAAGCCATTCTAGTAATAAATTCAGCATTAAGTCCGATGTATGGTCATTTGGA
 ATCCTTCTTTATGAAATCATTACTTATGGCAAAATGCCTTACAGTGGTATGACAGGTGCCAGGTAATCC
 AGATGTTGGCTCAAACTATAGACTTCCGCAACCATCCAAGTGTCCACAGCAATTTTACAACATCATGTT
 GGAGTGTGGAATGCAGAGCCTAAGGAACGACCTACATTTGAGACACTGCGTTGGAACTTGAAGACTAT
 TTTGAAACAGACTCTTCATATTCAGATGCAATAAATTTCATAAGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

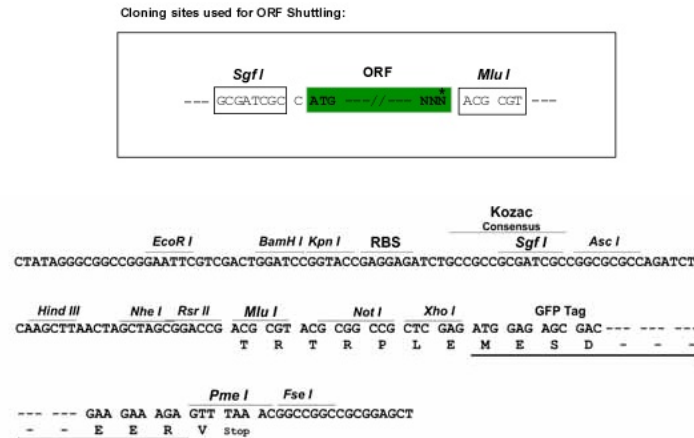
>RG204460 representing NM_002031
 Red=Cloning site Green=Tags(s)

MSNICQRLWEYLEPYLPCLSTEADKSTVIENPGALCSPQSQRHGHYFVALFDYQARTAEDLSFRAGDKLQ
 VLDTLHEGWFFARHLEKRRDGSSQQLQGYIPSNYVAEDRSLQAEPWFFGAIGRSDAEKQLLYSENKTGSF
 LIRESSESQKGEFSLSVLDGAVVKHYRIKRLDEGGFFLTRRRIFSTLNEFVSHYTKTSDGLCVKLGKPCCLK
 IQVPAPFDLSYKTVQWEIDRNSIQLLKRLGSGQFGEVWGLWNNTTPVAVKTLKPGSMDPNDFLREAQI
 MKNLRHPKLIQLYAVCTLEDPIYIITELMRHGSQLEYLQNDTGSKIHLTQQVDMAAQVASGMAYLESRY
 IHRDLAARNVLVGEHNIYKVADFGLARVFKVDNEDIYESRHEIKLPVKWTAPEAIRSNKFSIKSDVWSFG
 ILLYEITYGKMPYSGMTGAQVIQMLAQNYRLPQPSNCPQQFYNIMLECWNAEPKERPTFETLRWKLEDY
 FETDSSYSDANNFIR

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_002031

ORF Size: 1515 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_002031.3](#)

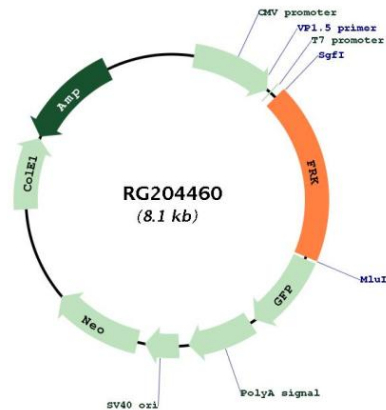
RefSeq Size: 2864 bp

RefSeq ORF: 1518 bp

Locus ID: 2444

UniProt ID:	<u>P42685</u>
Cytogenetics:	6q22.1
Domains:	pkinase, SH2, TyrKc, SH3, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	The protein encoded by this gene belongs to the TYR family of protein kinases. This tyrosine kinase is a nuclear protein and may function during G1 and S phase of the cell cycle and suppress growth. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG204460