

Product datasheet for **MR216926**

Frk (NM_010237) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Frk (NM_010237) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Frk
Synonyms:	BSK; BSK/IYK; C85044; GTK; RAK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR216926 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGCAGCGTCTGTGTGAGACTCTGGCATACTGCAGCCTTTCTCCCGTGTGGTCTCAAGAGGCAG
 ACAAGTCAGTAGTAATTGAGAATCCAGGGGCTTCTGTCCCCAGAGGCTCCAGGTCAACAAGAGCCCGA
 GAGAAGCCATGGCCAGTATTTGTGGCTCTGTTTGATTACCAAGCACGTAAGTGCAGAGGACCTGAGCTTC
 CGTGCCGGCGACAACTCCAAGTCTTGACACTTCGCATGAGGGCTGGTGGTTGGCCAGACATTTGGAGA
 AGAAGGGAACCGGCTTAGGTGAGCAGCTACAGGGCTACATTCTTCCAATTACGTGGCGGAGGACCCGGAG
 TCTCCAGGCAGAGCCGTGGTTTTTTGGAGCAATCAAAGAGCAGATGCAGAAAAACAACCTCTGTATTCA
 GAAAACAGAGCGGGCCCTTTCTAATCAGAGAGAGTGAGAGCCAGAAGGGTGACTTTTCCCTCTCAGTTT
 TAGATGAAGGTGTTGAAAACACTACAGAATAAGAAGGTTGGATGAAGGTGGCTTCTTCTCACCAGGAG
 GAAAGTCTTTTCAACCTGAATGAATTCGTGAAGTACTACACCACAACAAGTGACGGGCTGTGTGCAAG
 CTGGAGAAGCCATGCTTAAAGATCCAGGTACCAACCCCTTTTGATTTGTCATATAAAACTGCAGACCACT
 GGGAGATAGACCGCAACTCCATACAGCTTTTGAAGCGACTGGGATCTGGTCAAGTTTGGAGAAGTTTGGGA
 AGGTCTGTGGAATAATACCACTCCAGTGGCCGTAACGTTAAAACAGGTTCAATGGATCCAAATGAC
 TTCCTGAGGGAGGCACAGATAATGAAGAGCCTAAGACACCCAAAACCTCATCCAGCTCTATGCTGTTTGCA
 CTTTAGAAGATCCCATTTATATTACAGAGTTGATGAGACATGGAAGCCTGCAAGAATATCTCCAAAA
 TGATGGTGGGTCAAAAATCCATTTGATTAACAGGTAGACATGGCGGCACAGGTGGCTTCTGGAATGGCC
 TATCTTGAGTCGAGAATAATTCACAGAGACTGGCTGCAAGAAATGCCTTGTGGTGAACATAATA
 TCTACAAAAGTAGCAGATTTTGGACTTGAAGAGTTTTTAAAGGTAGATAATGAAGACATCTATGAATCTAA
 ACACGAAAATAAAGCTGCCAGTGAAGTGGACTGCACCCGAAGCCATTCGTAATAAATCAGCATTAAAG
 TCTGATGTGGTCTTTTGAATCCTGCTCTATGAAATCATTACTTATGGCAAAATGCCTTACAGTGGTA
 TGACAGGTGCTCAAGTAATCAATGTTGAGTCAAAAACACTACAGACTTCCACAGCCATCTAACTGCCACA
 GCAATTCTACAGCATCATGCTAGAGTGTGGAATGTTGAGCCTAAGCAACGGCCAACATTTGAGACCCTG
 CATTGGAAACTTGAAGACTACTTTGAAACAGACTGTTCTATTTCAGATACAAATAACTTCATAAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR216926 protein sequence
 Red=Cloning site Green=Tags(s)

MGSVCVRLWAYLQPFLLPCWSQEADKSVVIENPGAFCPPEAPRSQEPERSHGQYFVALFDYQARTAE DL SF
 RAGDKLQVLDTSHEGWLLARHLEKKG TGLGQQLQGYIPSNYVAEDRSLQAE PWF FGAIKRADA EKQLLYS
 ENQTGAFLIRESESQKGFSLSVLDEGVVKHYRIRRLDEGGFLLTRRKVFSTLNEFVNYYTTTSDGLCVK
 LEKPKLKIQVPTPFDLSYKTADQWEIDRNSIQLLKR LGSQGFGEVWEGLWNNTTPVAVKTLKPGSMDPND
 FLREAQIMKSLRHPKLIQLYAVCTLEDPIYIITELMRHGS LQEYLQNDGGSKIHLIQQVDMAAQVASGMA
 YLESQNYIHRDLAARNVLVGEHNIYKVADFGLARVFKVDNEDIYESKHEIKLPVKWTAPEAIRTNKFSIK
 SDVWSFGILLYEIITYGKMPYSGMTGAQVIQMLSQNYRLPQPSNCPQQFYSIMLECWNV EPKQRPTFETL
 HWKLEDYFETDCSYSDTNFIN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_010237

ORF Size: 1539 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.

RefSeq: [NM_010237.3](#), [NP_034367.2](#)

RefSeq Size: 4669 bp

RefSeq ORF: 1539 bp

Locus ID: 14302

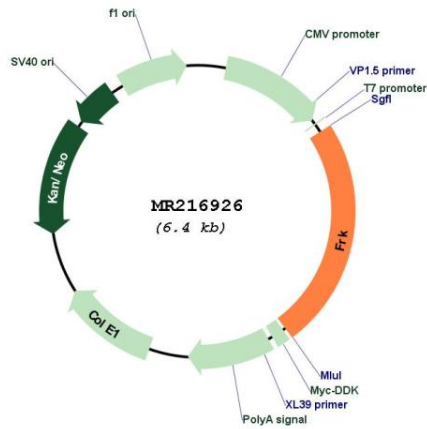
UniProt ID: [Q922K9](#)

Cytogenetics: 10 B1

MW: 58.8 kDa

Gene Summary: Non-receptor tyrosine-protein kinase that negatively regulates cell proliferation. Positively regulates PTEN protein stability through phosphorylation of PTEN on 'Tyr-336', which in turn prevents its ubiquitination and degradation, possibly by reducing its binding to NEDD4. May function as a tumor suppressor (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR216926