

Product datasheet for **MG216926**

Frk (NM_010237) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Frk (NM_010237) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Frk
Synonyms:	BSK; BSK/IYK; C85044; GTK; RAK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG216926 representing NM_010237
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCAGCGTCTGTGTGAGACTCTGGGCATACCTGCAGCCTTTTCTCCCGTGTGGTCTCAAGAGGCAG
 ACAAGTCAGTAGTAATTGAGAATCCAGGGCCTTCTGTCCCCAGAGGCTCCAGGTCAAGAGCCCGA
 GAGAAGCCATGGCCAGTATTTGTGGCTCTGTTTGATTACCAAGCACGTACTGCAGAGGACCTGAGCTTC
 CGTGCCGGCGACAACTCCAAGTCTTGACACTTCGCATGAGGGCTGGTGGTTGGCCAGACATTTGGAGA
 AGAAGGGAACCGGCTTAGGTGAGCAGCTACAGGGCTACATTCTTCCAATTACGTGGCGGAGGCCGGAG
 TCTCCAGGCAGAGCCGTGGTTTTTTGGAGCAATCAAAGAGCAGATGCAGAAAACTTCTGTATTCA
 GAAAACAGAGCGGCCCTTTCTAATCAGAGAGAGTGAGAGCCAGAAGGGTGACTTTTCCCTCTCAGTTT
 TAGATGAAGGTGTTGAAAACACTACAGAATAAGAAGGTTGGATGAAGGTGGCTTCTTCTCACCAGGAG
 GAAAGTCTTTTCAACCCGAATGAATTCGTGAAGTACTACACCACAACAAGTGACGGGCTGTGTGCAAG
 CTGGAGAAGCCATGCTTAAAGATCCAGGTACCAACCCCTTTTGATTTGTCATATAAACTGCAGACCAGT
 GGGAGATAGACCCAACTCCATACAGCTTTTGAAGCGACTGGGATCTGGTCAGTTTGGAGAAGTTTGGGA
 AGGTCTGTGGAATAATACCACTCCAGTGGCCGTAACAACTGTTAAACAGGTTCAATGGATCCAAATGAC
 TTCCTGAGGGAGGCACAGATAATGAAGAGCCTAAGACACCCAAAACCTCATCCAGCTCTATGCTGTTTGCA
 CTTTAGAAGATCCCATTTATATTACAGAGTTGATGAGACATGGAAGCCTGCAAGAATATCTCCAAAA
 TGATGGTGGGTCAAAAATCCATTTGATTCAACAGGTAGACATGGCGGCACAGGTGGCTTCTGGAATGGCC
 TATCTTGAGTCGAGAATAATTTACAGAGACTGGCTGCAAGAAATGCCTTGTGGTGAACATAATA
 TCTACAAAAGTAGCAGATTTTGGACTTGAAGAGTTTTTAAAGGTAGATAATGAAGACATCTATGAATCTAA
 ACACGAAAATAAAGCTGCCAGTGAAGTGGACTGCACCCGAAGCCATTCGTAATAAATCAGCATTAAAG
 TCTGATGTGGTCTTTTGAATCCTGCTCTATGAAATCATTACTTATGGCAAAATGCCTTACAGTGGTA
 TGACAGGTGCTCAAGTAATCAATGTTGAGTCAAACTACAGACTTCCACAGCCATCTAACTGCCACACA
 GCAATTCTACAGCATCATGCTAGAGTGTGGAATGTTGAGCCTAAGCAACGGCCAACATTTGAGACCCTG
 CATTGGAACTTGAAGACTACTTTGAAACAGACTGTTCTATTACAGATACAAATAACTTCATAAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

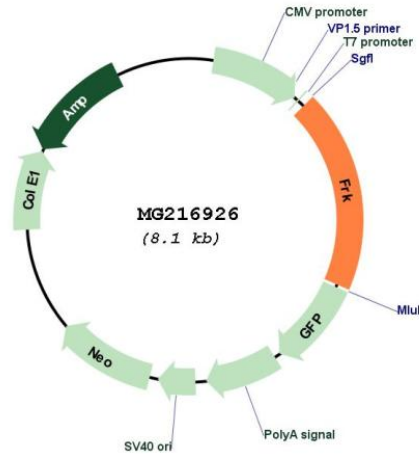
>MG216926 representing NM_010237
 Red=Cloning site Green=Tags(s)

MGSVCVRLWAYLQPFPLCWSQEADKSVVIENPGAFCPPEAPRSQEPERSHGQYFVALFDYQARTAEDLSF
 RAGDKLQVLDTSHEGWLLARHLEKKGTLGQQLQGYIPSNYVAEDRSLQAEPWFFGAIKRADAEEKQLLYS
 ENQTGAFLIRESESQKGFSLSVLDEGVVKHYRIRRLDEGGFLLTRRKVFSTLNEFVNYTTSDGLCVK
 LEKPKLIQVPTPFDLSYKTADQWEIDRNSIQLLKRLGSGQFGEVWEGLWNNTPVAVKTLKPGSMDPND
 FLREAQIMKSLRHPKLIQLYAVCTLEDPIYIITELMRHGSLQEYLQNDGGSKIHLIQQVDMAAQVASGMA
 YLESQNYIHRDLAARNVLVGEHNIYKVADFGLARVFKVDNEDIYESKHEIKLPVKWTAPEAIRTNKFSIK
 SDVWSFGILLYEIITYGKMPYSGMTGAQVIQMLSQNYRLPQPSNCPQQFYSIMLECWNVPEPKQRPTFETL
 HWKLEDYFETDCSYSDTNNFIN

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Plasmid Map:


ACCN: NM_010237

ORF Size: 1536 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

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]