

Product datasheet for **MR208226**

Frk (NM_001159544) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Frk (NM_001159544) 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)



[View online »](#)

ORF Nucleotide Sequence:

>MR208226 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGCAGCGTCTGTGTGAGACTCTGGCATACTGCAGCCTTTCTCCCGTGTGGTCTCAAGAGGCAG
 ACAAGTCAGTAGTAATTGAGAATCCAGGGGCTTCTGTCCCCAGAGGCTCCAGGTCAACAAGAGCCCGA
 GAGAAGCCATGGCCAGTATTTGTGGCTCTGTTTGATTACCAAGCACGTACTGCAGAGGACCTGAGCTTC
 CGTGCCGGCGACAACTCCAAGTCTTGACACTTCGCATGAGGGCTGGTGGTTGGCCAGACATTTGGAGA
 AGAAGGGAACCGGCTTAGGTGAGCAGCTACAGGGCTACATTCCTTCCAATTACGTGGCGGAGGACCCGGAG
 TCTCCAGGCAGAGCCGTGGTTTTTTGGAGCAATCAAAGAGCAGATGCAGAAAAACAACTCTGTATTCA
 GAAAACCAGACGGGCGCCTTTCTAATCAGAGAGAGTGAGAGCCAGAAGGGTGACTTTTCCCTCTCAGTTT
 TAGATGAAGGTGTTGAAAACACTACAGAATAAGAAGTTGGATGAAGGTGGCTTCTTCTCACCAGGAG
 GAAAGTCTTTTCAACCCGAATGAATTCGTGAACACTACACCACAACAAGTGACGGGCTGTGTGCAAG
 CTGGAGAAGCCATGCTTAAAGATCCAGGTACCAACCCCTTTTGATTTGTCATATAAAACTGCAGACCAGT
 GGGAGATAGACCGCAACTCCATACAGCTTTTGAAGCGACTGGGATCTGGTCAAGTTTGGAGAAGTTTGGGA
 AGGTCTGTGGAATAATACCACTCCAGTGGCCGTAAAAACGTTAAAACAGGTTCAATGGATCCAAATGAC
 TTCCTGAGGGAGGCACAGATAATGAAGAGCCTAAGACACCCAAAACTCATCCAGCTCTATGCTGTTTGCA
 CTTTAGAAGATCCCATTTATATTACAGAGTTGATGAGACATGGAAGCCTGCAAGAATATCTCCAAAA
 TGATGGTGGGTCAAAAATCCATTTGATTAACAGGTAGACATGGCGGCACAGGTGGCTTCTGGAATGGCC
 TATCTTGAGTCGAGAATAATTCACAGAGACTGGCTGCAAGAAATGCCTTGTGGTGAACATAATA
 TCTACAAAGTAGCAGATTTTGGACTTGAAGAGTTTTTAAAGGTAGATAATGAAGACATCTATGAATCTAA
 ACACGAAAATAAAGCTGCCAGTGAAGTGGACTGCACCCGAAGCCATTCGTAATAAATCAGCATTAAAG
 TCTGATGTGGTCTTTTGAATCCTGCTCTATGAAATCATTACTTATGGCAAAATGCCTTACAGTGGTA
 TGACAGGTGCTCAAGTAATCAATGTTGAGTCAAAACTACAGACTTCCACAGCCATCTAACTGCCACACA
 GCAATTCTACAGCATCATGCTAGAGTGTGGAATGTTGAGCCTAAGCAACGGCCAACATTTGAGACCCTG
 CATTGGAAACTTGAAAGACTACTTTGAAACAGACTGTTCTATTAGATACAAATAACTTCATAAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208226 protein sequence
 Red=Cloning site Green=Tags(s)

MGSVCVRLWAYLQPFLLPCWSQEADKSVVIENPGAFCPPEAPRSQEPERSHGQYFVALFDYQARTAE^{DL}SF
 RAGDKLQVLDTSEHGWWLARHLEKKG^{TGL}QQQLQGYIPSNYVAEDRSLQAE^{PWF}FGAIKRADA^{EK}QLLYS
 ENQTGAFLIRESESQK^{GDF}SLSVLDEGVVKHYRIRRLDEGGF^{FL}TRRKV^FSTLNEFVNYTTTSDGL^{CVK}
 LEK^{PLK}IQVPT^{PF}DL^{SYK}TADQWEIDRNSIQLLKRLGSGQFGEVWEGLWNN^{TP}VAVK^{TL}KPGSMD^{PND}
 FLREAQIMKSLRHPKLIQLYAVCTLEDPIYIITELMRHGS^{LQ}EYLQNDGGSKIHLIQQVDM^{AAQ}VASGMA
 YLESQNYIHRDLAARNVLVGEHNIYKVADFGLARVFKVDNEDIYESKHEIKLPVKWTAPEAIR^{TN}KFSIK
 SDVWSFGILLYEIITYGKMPYSGMTGAQVIQMLSQNYR^LPQPSNCPQQFYSIMLECW^NVEPKQRPTFETL
 HWKLEDYFETDCSYS^{DT}NNFIN

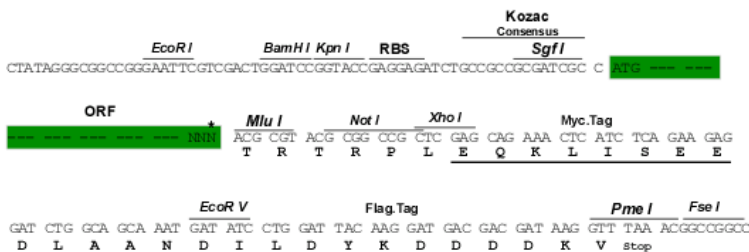
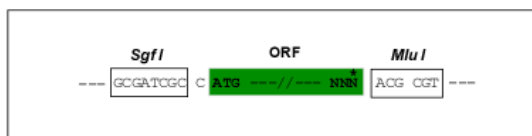
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001159544

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_001159544.1](#), [NP_001153016.1](#)
RefSeq Size: 4825 bp

RefSeq ORF: 1539 bp

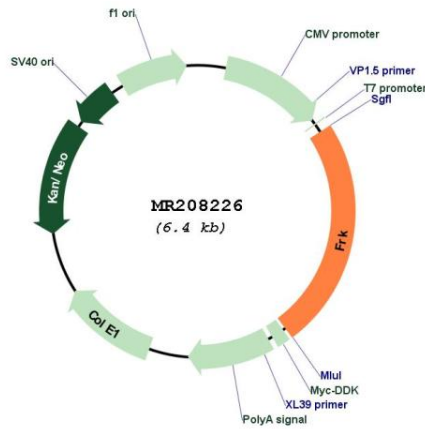
Locus ID: 14302

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 MR208226