

## Product datasheet for **MC217280**

### Frk (NM\_010237) Mouse Untagged Clone

#### Product data:

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



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**Fully Sequenced ORF:** >MC217280 representing NM\_010237  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGCAGCGTCTGTGTGAGACTCTGGGCATACCTGCAGCCTTTTCTCCCGTGTGGTCTCAAGAGGCAG  
 ACAAGTCAGTAGTAATTGAGAATCCAGGGCCTTCTGTCCCCAGAGGCTCCAGGTCAACAAGAGCCCGA  
 GAGAAGCCATGGCCAGTATTTTGTGGCTCTGTTTGATTACCAAGCACGTAAGTGCAGAGGACCTGAGCTTC  
 CGTGCCGGCGACAACTCCAAGTCTTGGACACTTCGCATGAGGGCTGGTGGTTGGCCAGACATTTGGAGA  
 AGAAGGGAACCGGCTTAGGTGAGCAGCTACAGGGCTACATTCTTCCAATTACGTGGCGGAGGACCCGGAG  
 TCTCCAGGCAGAGCCGTGGTTTTTTGGAGCAATCAAAGAGCAGATGCAGAAAAACAACCTCTGTATTCA  
 GAAAACAGAGCGGGCCCTTTCTAATCAGAGAGAGTGAGAGCCAGAAGGGTGACTTTTCCCTCTCAGTTT  
 TAGATGAAGGTGTTGAAAACACTACAGAATAAGAAGGTTGGATGAAGGTGGCTTCTTCTCACCAGGAG  
 GAAAGTCTTTTCAACCCGAATGAATTCGTGAACACTACACCACAACAAGTGACGGGCTGTGTGTCAAG  
 CTGGAGAAGCCATGCTTAAAGATCCAGGTACCAACCCCTTTTGATTTGTCATATAAAACTGCAGACCACT  
 GGGAGATAGACCCAACTCCATACAGCTTTTGAAGCGACTGGGATCTGGTCAAGTTTGGAGAAGTTTGGGA  
 AGGTCTGTGGAATAATACCACTCCAGTGGCCGTAACAACTGTTAAACAGGTTCAATGGATCCAAATGAC  
 TTCCTGAGGGAGGCACAGATAATGAAGAGCCTAAGACACCCAAAACCTCATCCAGCTCTATGCTGTTTGCA  
 CTTTAGAAGATCCCATTTATATTACAGAGTTGATGAGACATGGAAGCCTGCAAGAATATCTCCAAA  
 TGATGGTGGGTCAAAAATCCATTTGATTAACAGGTAGACATGGCGGCACAGGTGGCTTCTGGAATGGCC  
 TATCTTGAGTCGAGAACTATATTACAGAGATCTGGCTGCAAGAAATGCCTTGTGGTGAACATAATA  
 TCTACAAAGTAGCAGATTTTGGACTTGAAGAGTTTTTAAGGTAGATAATGAAGACATCTATGAATCTAA  
 ACACGAAATAAAGCTGCCAGTGAAGTGGACTGCACCCGAAGCCATTCGTAATAAATTCAGCATTAAAG  
 TCTGATGTGGTCTTTTGAATCCTGCTCTATGAAATCATTACTTATGGCAAAATGCCTTACAGTGGTA  
 TGACAGGTGCTCAAGTAATCAATGTTGAGTCAAACTACAGACTTCCACAGCCATCTAACTGCCACACA  
 GCAATTCTACAGCATCATGCTAGAGTGTGGAATGTTGAGCCTAAGCAACGGCCAACATTTGAGACCCTG  
 CATTGGAACTTGAAGACTACTTTGAAACAGACTGTTCTATTTCAGATACAAATAACTTCATAAACTAA

**ACGGT**ACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_010237

**Insert Size:** 1539 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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]  
Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Variants 1-3 all encode the same protein.