

Product datasheet for **RC207123**

BLK (NM_001715) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BLK (NM_001715) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BLK
Synonyms:	MODY11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC207123 ORF sequence, **codon optimized**.
 Due to the complexity of NM_001715, the ORF clone is codon optimized for mammalian Expression.
 The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**GCGATCGCC**

ATGGGCCTGGTATCCTCTAAGAAACCCGACAAGGAAAAACCCATTAAGGAAAAGGACAAGGGACAGTGGA
 GCCCCCTTAAGGTGTGAGCGCAGGATAAAGACGCACCTCCCTGCCCCCTCTGGTTGTGTTAACTACTT
 GACCCCTCTCCACCCGACGAGCACCTGGATGAGGACAAACACTTCGTGGTCGCCCTCTACGATTACACA
 GCTATGAATGATCGCGATCTCCAGATGCTGAAGGGGAGAACTTCAAGTCTCAAGGCACTGGCGACT
 GGTGGCTGGCCCGATCCCTGGTAACGGGCGCGAGGGCTACGTTCCAGCAATTTGTGCGCTCGCGTGGA
 GTCTTTGGAGATGAAAAGGTGGTCTTTAGATCTCAAGGCAGGAAAGAAGCTGAAAGACAGCTCCTGGCG
 CCAATTAATAAGCAGGCAGTTTCTGATCAGAGAGAGTAAACGAATAAGGGAGCGTTTCTCTCTCAG
 TCAAAGACGTGACTACCCAGGGAGAAGTATTAAGCACTACAAAAATCCGCTGCCTTGATGAAGGTGGCTA
 CTATATTTCCCCAGAATTACTTTCTTCACTGCAGGCCCTGGTCCAGCACTACAGCAAGAAGGGAGAT
 GGTTTGTGTCAGCGCCTGACACTCCCATGTGTTCCGCCAGCCCCCAGAATCCATGGGCTCAAGACGAAT
 GGGAAATCCCCGGCAAAGTCTCAGACTTGTGAGGAAGCTGGGGAGTGGACAATTTGGGGAGTCTGGAT
 GGGCTACTACAAGAATAACATGAAGGTGGCAATTAACACCTGAAAGAAGGGACTATGAGTCCGGAGCA
 TTTCTGGGCGAGGCAAATGTGATGAAGGCCTTGACAGCAGAGCGCCTGGTAAGGTTGATGCCGTGGTGA
 CTAAAGGAGCCATCTACATCGTAACCGAATACATGGCAAGGGGGTGCCTGCTTGACTTCTTGAAAACAGA
 CGAGGGCTCCAGACTGTCCCTGCCCGGCTGATCGATATGTCAGCACAGATCGCCGAGGGCATGGCTTAC
 ATCGAAAGGATGAACTCCATACACCGAGATCTTCGCGCAGCCAACATCTTGGTGTCTGAAGCTCTGTGT
 GCAAGATCGCCGACTTCGGGCTCGCTCGGATCATCGATAGCGAATACTGCCAAGAGGGTGCCAAGTT
 CCCGATCAATGGACCGCCCCGAGGCCATCCACTTCGGCGTCTTACAATTAAGGCTGACGTGTGGTCC
 TTTGGGTCTGCTTATGGAGGTGGTTACATACGGTTCGGTTCCTACCCTGGTATGTCCAACCCGAGG
 TGATTCGAAACCTTGAGAGGGGCTATCGGATGCCCGGCCGACACCTGCCACCCGAGCTGTATAGAGG
 CGTTATTGCTGAATGCTGGCGGTCCCGGCTGAGGAACGCCAACATTCGAGTTTTGCAATCAGTGCTG
 GAAGATTTCTATACCGCCACTGAACGGCAGTACGAACTGCAGCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207123 representing NM_001715
 Red=Cloning site Green=Tags(s)

MGLVSSKKPDKEKPIKEKDKGQWSPLKVSQDKDAPPLPPLVVFNHLTPPPPDEHLDEKHFVVALYDYT
 AMNDRDLQMLKGEKLQVLKGTGDWWLARSLVTGREGYVPSNFVARVESLEMERWFFRSQGRKEAERQLLA
 PINKAGSFLIRESETNKGAFSLVKDVTQGELIKHYKIRCLDEGGYYISPRITFPSPQLALVQHYSKKG
 GLCQRLTLPCVRPAPQNPWAQDEWEIPRQSLRLVRKLGSGQFGEVWMGYKNNMKVAIKTLKEGTMSP
 FLGEANVMKALQHERLVRLYAVVTKEPIYIVTEYMARGCLLDFLKTDEGSRLSLPRLIDMSAQIAEGMAY
 IERMNSIHRDLRAANILVSEALCCKIADFGLARIIDSEYTAQEGAKFPIKWTAPEAIFHGVFTIKADVWS
 FGVLLMEVVYGRVPYPGMSNPEVIRNLERGYRMPRPDTPPEL YRGVIAECWRSRPEERPTFEFLQSVL
 EDFYTATERQYELQP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001715

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.

RefSeq: [NM_001715.1](#), [NM_001715.2](#), [NP_001706.2](#)

RefSeq Size: 2215 bp

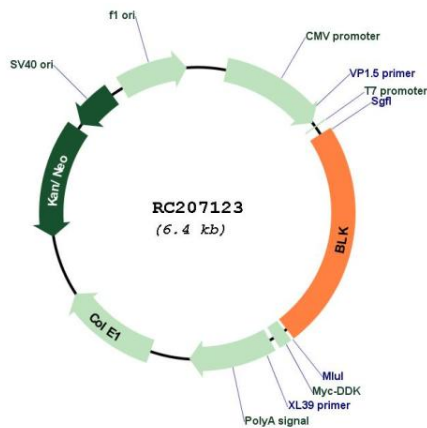
RefSeq ORF: 1518 bp

Locus ID: 640

UniProt ID: [P51451](#)

Cytogenetics:	8p23.1
Domains:	kinase, SH2, TyrKc, SH3, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
MW:	57.7 kDa
Gene Summary:	This gene encodes a nonreceptor tyrosine-kinase of the src family of proto-oncogenes that are typically involved in cell proliferation and differentiation. The protein has a role in B-cell receptor signaling and B-cell development. The protein also stimulates insulin synthesis and secretion in response to glucose and enhances the expression of several pancreatic beta-cell transcription factors. [provided by RefSeq, Aug 2010]

Product images:



Circular map for RC207123