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Product datasheet for SC323504

BLK (NM_001715) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BLK (NM_001715) Human Untagged Clone
Tag:	Tag Free
Symbol:	BLK
Synonyms:	MODY11
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene ORF within SC323504 sequence for NM_001715 edited (data generated by NextGen Sequencing)

ATGGGGCTGGTAAGTAGCAAAAAGCCGGACAAGGAAAAGCCGATCAAAGAGAAGGACAAG
GGCCAATGGAGCCCCCTGAAGGTCAGCGCCCAAGACAAGGACGCCCCGCCACTGCCGCCC
CTGGTTGTCTTCAACCACCTTACTCCTCCACCGCCCGATGAACACCTGGATGAAGACAAG
CATTTCGTGGTGGCTCTGTATGACTACACCGCTATGAATGATCGGGACCTGCAGATGCTG
AAGGGGGAGAAGCTACAGGTCCTGAAGGGAACTGGAGACTGGTGGCTGGCCAGGTCACTC
GTCACAGGAAGAGAAGGCTATGTGCCCAGTAACTTTGTGGCCCGAGTGGAGAGCCTGGAA
ATGGAAAGGTGGTTCTTTAGATCACAGGGTCGGAAGGAGGCTGAGAGGCAGCTTCTTGCT
CCAATCAACAAGGCCGGCTCCTTTCTTATCAGAGAGAGTGAAACCAACAAAGGTGCCTTC
TCCCTGTCTGTGAAGGATGTCACCACCCAGGGGGAGCTGATCAAGCACTATAAGATCCGC
TGCCTGGATGAAGGGGGCTACTACATCTCCCCCCGGATCACCTTCCCCTCGCTCCAGGCC
CTGGTGCAGCACTATTCTAAGAAGGGGGATGGTCTATGCCAGAGGCTGACCCTGCCCTGT
GTGCGCCCGGCCCCGCAGAATCCCTGGGCCCAGGATGAATGGGAGATCCCCCGGCAGTCT
CTCAGGCTGGTCAGGAAACTCGGGTCTGGACAATTCGGCGAAGTCTGGATGGGTTACCAC
AAAAACAACATGAAGGTGGCCATTATGACGCTGAAGGAGGGAACCATGTCTCCAGAAGCC
TTCCTGGGTGAGGCCAACGTGATGAAGGCTCTGCAGCACGAGCGGCTGGTCCGACTCTAC
GCAGTGGTCACCAAGGAGCCCATCTACATTGTCACCGAGTACATGGCCAGAGGATGCCTG
CTGGATTTCCTGAAGACAGATGAAGGGAGCAGATTGTCACTCCCAAGGCTGATTGACATG
TCGGCGCAGATTGCTGAAGGGATGGCATACATTGAGCGCATGAATTCCATCCACCGCGAC
CTGCGGGCGGCCAACATCCTGGTGTCTGAGGCCTTGTGCTGCAAAATTGCTGATTTTGGC
TTGGCTCGAATCATCGACAGTGAATACACGGCCCAAGAGGGGGCCAAGTTCCCCATCAAG
TGGACAGCCCCGGAAGCCATCCACTTCGGGGTCTTCACCATCAAAGCAGACGTGTGGTCG
TTTGGAGTCCTCCTGATGGAAGTTGTCACTTATGGGCGGGTGCCATACCCAGGGATGAGC
AACCCCGAGGTCATCCGCAACCTGGAGCGCGGCTACCGCATGCCGCGCCCCGACACCTGC
CCGCCCGAGCTGTACCGCGGCGTCATCGCCGAGTGCTGGCGCAGCCGGCCCGAGGAGCGG
CCCACCTTCGAGTTCCTGCAGTCGGTGCTGGAGGACTTCTACACGGCCACCGAGCGGCAG
TACGAGCTGCAGCCCTAG

Clone variation with respect to NM_001715.2
778 t=>c;806 a=>t;843 t=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for mutant NM_001715 unedited
ACCGCCGTTGAGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAA
CCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGGAGGCTCTGATCGC
AGACCGGGGGTGCTGCTACCTCTGTCTGCTGCCGGCAGAAAGCCACAAGCCATGAAAACTGATTGAGATG
AGAAGAATTCATCTGGGACTGGCTTTTGCTTTAGGATGGTGTTGGAAGTTGCTCGTTGTCGCTAGGAGCC
TGCTCCACTGTAAGGGTGTCGGGATCTGAAGAGCTATGGTGAAACACCACTGAAGCATTGCCAAGGATGG
GGGCTGGGTAAGTAGCAAAAAGCCGGACAAGGAAAAGCCGATCAAAGAGAAGGACAAGGGCCAATGGAGC
CCCCCTGAGGTCAGCCGCCCCAAGACCAAGGACGCCCCCGCCACTGCCCGCCCCCTGTTTGTTCTTCAAC
CCACCCTACCTCCTTCCACCCGCCCGATGAACCACCCTGAATGAAGAACAAGCATTTTCGTGGTGGGCCT
CGTGTATGGACTCACCCCGCTATGAATTGATCCGGAACCTGGCAAATGCTGAAGGGGGGAAACCTACAGG
TCCTGAAGGAAACTGGAGACGTGGGGGTGGGCCCAGTTACACTCGTCACAGAGAAAGAAGGCTATGTGCC
GTTAACTTTGGGCCAGTGTGAAACCCTGAAATGAAAGAGGGTCTCTTATATCAAGGTTCAAAGAGCTAAA
GGATCTTGGCTAACACAGGCGCTCTTTTTACAGAAGTTGAACCCAAGTGCCTACTCGTTGGAAGTTCCAC
CCAAGGAACTTAGCCCATAATTCCGTCGTAAGGTCTAATCCGGATCCCTCTCCCCTCCAAGCGTGCCATT
AGCACAAGAGATGTTC

Kinase Domain Sequence:	>SC323504 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI refernce protein database, you can confirm the presence of the kinase-deficient mutation TCTGGTAGACTCGGGTCTGGACATTCGGCGAAGTCTGGATGGGTTACCACAAAAACAACATGAAGGTGGC CATTATGACGCTGAAGGAGGGAACCATGTCTCCAGAAGCCTTCCTGGGTGAGGCCAACGTGATGAAGGCT CTGCAGCACGAGCGGCTGGTCCGACTCTACGCAGTGGTCACCAAGGAGCCCATCTACATTGTCACCGAGT ACATGGCCAGAGGATGCCTGCTGGATTTCCTGAAGACAGATGAAG
Restriction Sites:	Please inquire
ACCN:	NM_001715
Insert Size:	2000 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).
OTI Annotation:	This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell. 2008 May p536-548.
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_001715.2, NP_001706.2
RefSeq Size:	2642 bp
RefSeq ORF:	1518 bp
Locus ID:	640
UniProt ID:	P51451
Cytogenetics:	8p23.1
Domains:	pkinase, SH2, TyrKc, SH3, S_TKc
Protein Families:	Druggable Genome, Protein Kinase

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]