

## Product datasheet for **RG207123**

### **BLK (NM\_001715) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BLK (NM_001715) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BLK
Synonyms:	MODY11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG207123 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)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**GCGATCGCC**

ATGGGCCTGGTATCCTCTAAGAAACCCGACAAGGAAAAACCCATTAAGGAAAAGGACAAGGGACAGTGGA  
 GCCCCCTTAAGGTGTGAGCGCAGGATAAAGACGCACCTCCCTGCCCCCTCTGGTTGTGTTAACTACTT  
 GACCCCTCCTCCACCCGACGAGCACCTGGATGAGGACAAACACTTCGTGGTCGCCCTCTACGATTACACA  
 GCTATGAATGATCGCGATCTCCAGATGCTGAAGGGGAGAACTCAAGTCCTCAAAGGCACTGGCGACT  
 GGTGGCTGGCCCGATCCCTGGTAACGGGCGCGAGGGCTACGTTCCAGCAATTTGTGCGCTCGCGTGGA  
 GTCTTTGGAGATGAAAAGGTGGTTCTTTAGATCTCAAGGCAGGAAAGAAGCTGAAAGACAGCTCCTGGCG  
 CCAATTAATAAGCAGGCAGTTTCTGATCAGAGAGAGTAAACGAATAAGGGAGCGTTTCTCTCTCAG  
 TCAAAGACGTGACTACCCAGGGAGAAGTATTAAGCACTACAAAAATCCGCTGCCTTGATGAAGGTGGCTA  
 CTATATTTCCCCAGAATTACTTTTCTTCACTGCAGGCCCTGGTCCAGCACTACAGCAAGAAGGGAGAT  
 GGTTTGTGTCAGCGCCTGACACTCCCATGTGTTCCGCCAGCCCCCAGAATCCATGGGCTCAAGACGAAT  
 GGGAAATCCCCCGCAAAGTCTCAGACTTGTGAGGAAGCTGGGGAGTGACAATTTGGGGAGTCTGGAT  
 GGGCTACTACAAGAATAACATGAAGGTGGCAATTAACCCCTGAAAGAAGGGACTATGATCCGGAGGCA  
 TTTCTGGGCGAGGCAAAATGTGATGAAGGCCTTGACAGCAGCGCCTGGTAAGGTTGTATGCCGTGGTGA  
 CTAAGGAGCCATCTACATCGTAACCGAATACATGGCAAGGGGGTGCCTGCTTACTTCTGAAAACAGA  
 CGAGGGCTCCAGACTGTCCCTGCCCGGCTGATCGATATGTCAGCACAGATCGCCGAGGGCATGGCTTAC  
 ATCGAAAGGATGAACTCCATACACCGAGATCTTCGCGCAGCCAACATCTTGGTGTCTGAAGCTCTGTGT  
 GCAAGATCGCCGACTTCGGGCTCGCTCGGATCATCGATAGCGAATACTGCCAAGAGGGTGCCAAGTT  
 CCCGATCAATGGACCGCCCCGAGGCCATCCACTTCGGCGTCTTACAATTAAGGCTGACGTGTGGTCC  
 TTTGGGGTCTGCTTATGGAGGTGGTTACATACGGTTCGGTTCCTACCCTGGTATGTCCAACCCCGAGG  
 TGATTCGAAACCTTGAGAGGGGCTATCGGATGCCCGGCCGACACCTGCCACCCGAGCTGTATAGAGG  
 CGTTATTGCTGAATGCTGGCGGTCCCGGCTGAGGAACGCCAACATTCGAGTTTTGCAATCAGTGCTG  
 GAAGATTTCTATACCGCCACTGAACGGCAGTACGAACTGCAGCCC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG207123 representing NM\_001715  
 Red=Cloning site Green=Tags(s)

MGLVSSKKPDKEKPIKEKDKQWSPLKVSQDKDAPPLPPLVVFVNHLPPLPPDEHLDEDKHFVVALYDYT  
 AMNDRDLQMLKGEKLQVLKGTGDWWLARSLVTGREGYVPSNFVARVESLEMERWFFRSQGRKEAERQLLA  
 PINKAGSFLIRESETNKGAFSLVKDVTQGELIKHYKIRCLDEGGYISPRITFPSLQALVQHYSKKGD  
 GLCQRLTLPCVRPAPQNPWAQDEWEIPRQSLRLVRKLGSGQFGEVWMGYKNNMKVAIKTLKEGTMSP  
 FLGEANVMKALQHERLVRLYAVVTKEPIYIVTEYMARGCLLDFLKTDEGSRLSLPRLIDMSAQIAEGMAY  
 IERMNSIHRDLRAANILVSEALCCKIADFGLARIIDSEYTAQEGAKFPIKWTAPEAIHFGVFTIKADVWS  
 FGVLLMEVVYGRVPYPGMSNPEVIRNLERGYRMPRPDTCPEL YRGVIAECWRSRPEERPTFEFLQSVL  
 EDFYTATERQYELQP

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001715.2</a> , <a href="#">NP_001706.2</a>
<b>RefSeq Size:</b>	2215 bp
<b>RefSeq ORF:</b>	1518 bp
<b>Locus ID:</b>	640
<b>UniProt ID:</b>	<a href="#">P51451</a>
<b>Cytogenetics:</b>	8p23.1
<b>Domains:</b>	pkinase, SH2, TyrKc, SH3, S_TKc
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Gene Summary:</b>	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]