

Product datasheet for **RC239323**

BTK (NM_001287344) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BTK (NM_001287344) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BTK
Synonyms:	AGMX1; AT; ATK; BPK; IGHD3; IMD1; PSCTK1; XLA
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>RC239323 representing NM_001287344
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCAGTTGGTCCATTCAACAAATGGTTATTGGATGCCATTATGTGGCAGGCACTGTTCCGGGGGAG
AGCACACAGGTGAACTCCAGAAAAGAAGAAGCTATGGCCGCAAGTATTCTGGAGAGCATCTTTCTGAAGCG
ATCCCAACAGAAAAAGAAAACATCACCTCTAAACTTCAAGAAGCGCCTGTTTCTCTTGACCGTGCACAAA
CTCTCCTACTATGAGTATGACTTTGAACGTGGGAGAAGAGGCAGTAAGAAGGGTTCAATAGATGTTGAGA
AGATCACTTGTGTTGAAACAGTGGTTCTGAAAAAATCTCCTCCAGAAAGACAGATTCGAGAAAGAGG
TGAAGAGTCCAGTGAAATGGAGCAAATTTCAATCATTGAAAGGTTCCCTTATCCCTTCCAGGTTGTATAT
GATGAAGGGCCTCTACGTCTTCTCCCAACTGAAGAACTAAGGAAGCGGTGGATTACCAGCTCAAAA
ACGTAATCCGGTACAACAGTATCTGGTTCAGAAATATCACCTTGCTTCTGGATCGATGGGCAGTATCT
CTGCTGCTCTCAGACAGCAAAAATGCTATGGGCTGCCAAATTTGGAGAACAGGAATGGAAGCTTAAAA
CCTGGGAGTTCTACCGGAAGACAAAAAGCCTTCCCAACCGCTGAGGAGGACCAGATCTTAAAA
AGCCACTACCGCCTGAGCCAGCAGCAGCACCAGTCTCCCAAGTGAAGTGAAGGTTGTGGCCCTTTA
TGATTACATGCCAATGAATGCAATGATCTACAGCTGCGGAAGGGTGATGAATATTTTATCTTGGAGGAA
AGCAACTTACCATGGTGGAGAGCAGGAGATAAAAAATGGGAGGAAAGGCTACATTCCTAGTAACTATGTCA
CTGAAGCAGAAGACTCCATAGAAATGTATGAGTGGTATTCCAAACACATGACTCGGAGTCAAGGCTGAGCA
ACTGCTAAAGCAAGAGGGGAAAGAAGGAGGTTTCATTGTCAGAGACTCCAGCAAAGCTGGCAAATATACA
GTGTCTGTGTTTCTAAATCCACAGGGGACCCTCAAGGGGTGATACGTCATTATGTTGTGTGTTCCACAC
CTCAGAGCCAGTATTACCTGGCTGAGAAGCACCTTTTCAGCACCATCCCTGAGCTCATTAACTACCATCA
GCACAACCTCTGCAGGACTCATATCCAGGCTCAAATATCCAGTGTCTCAACAAAACAAGAATGCACCTTCC
ACTGCAGGCCTGGGATACGGATCATGGGAAATGATCCAAGGACCTGACCTTCTGAAGGAGCTGGGGA
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GCTGCCTCCTGAACTACCTGAGGAGATGCGCCACCGCTCCAGACTCAGCAGCTGCTAGAGATGTGCAA
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GTTGAGCAGCAAATCTGACATTTGGGCTTTTGGGGTTTGGATGTGGGAAATTTACTCCCTGGGGAAGATG
CCATATGAGAGATTTACTAACAGTGAAGTCTGTAACACATTGCCAAGGCTACGTCTCTACAGGCCTC
ATCTGGCTTCAGAGAAGGTATATACCATCATGTACAGTTGCTGGCATGAGAAAAGCAGATGAGCGTCCCAC
TTTCAAATTTCTCTGAGCAATATTCTAGATGTCATGGATGAAGAATCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239323 representing NM_001287344
 Red=Cloning site Green=Tags(s)

MASWSIIQQMVIGCPLCGRHCSSGEHTGELQKEEAMAAVILESIFLKRSQQKKTSPLNFKKRLFLLTVHK
 LSYYEYDFERGRGSKKGSIDVEKITCVETVVPEKNPPPERQIPRRGEESSEMEQISIIERFPYPFQVVY
 DEGPLYVFSPTEELRKRWIHQLKNVIRYNSDLVQKYHPCFWIDGQYLCCSQTAKNAMGCQILENRNGSLK
 PGSSHRKTKKPLPPTPEEDQILKKPLPPEPAAAPVSTSELKKVVALYDYPMPNANDLQLRKGDEYFILEE
 SNLPWWRARDKNGQEGYIPSNYVTEAEDSIEMEYEWYSKHMTRSQAELLKQEGKEGGFIVRDSKAGKYT
 VSVFAKSTGDPQGVIRHYVVCSTPQSQYYLAEKHLFSTIPELINYQHNSAGLISRLKYPVVSQKNAPVS
 TAGLGYGSWEIDPKDLTFLKELGTGQFVVKYKWRGQYDVAIKMIKEGSMSEDEFIEEAKVMMNLSHEK
 LVQLYGVCTKQRPIFIITEYMANGCLLNLYREMRHRFQTQQLLEMCKDVCEAMEYLESKQFLHRDLAARN
 CLVNDQGVVKVSDFGLSRYVLDDEYTSVSGSKFPVRWSPPEVLMYSKFSKSDIWAFLMWEIYSLGKM
 PYERFTNSETAEHIAQGLRLYRPHLASEKVYTIMYSCWHEKADERPTFKILLSNILDVMDEES

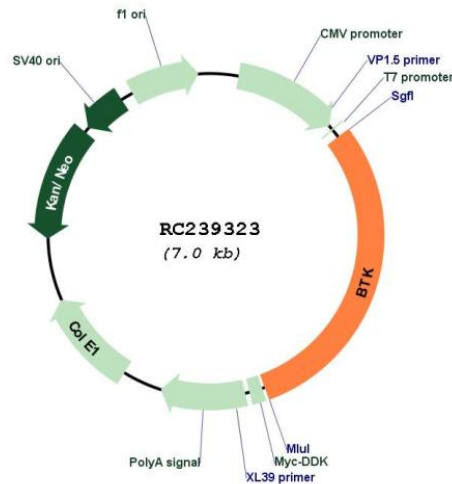
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001287344

ORF Size: 2079 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_001287344.1](#), [NP_001274273.1](#)

RefSeq Size: 2767 bp

RefSeq ORF:	2082 bp
Locus ID:	695
UniProt ID:	Q06187
Cytogenetics:	Xq22.1
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	B cell receptor signaling pathway, Fc epsilon RI signaling pathway, Primary immunodeficiency
MW:	80.4 kDa
Gene Summary:	The protein encoded by this gene plays a crucial role in B-cell development. Mutations in this gene cause X-linked agammaglobulinemia type 1, which is an immunodeficiency characterized by the failure to produce mature B lymphocytes, and associated with a failure of Ig heavy chain rearrangement. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2013]