

Product datasheet for **RC400852**

BTK (NM_000061) Human Mutant ORF Clone

Product data:

Product Type:	Mutant ORF Clones
Product Name:	BTK (NM_000061) Human Mutant ORF Clone
Mutation Description:	Q293X
Affected Codon#:	293
Affected NT#:	877
Nucleotide Mutation:	BTK Mutant (Q293X), Myc-DDK-tagged ORF clone of Homo sapiens Bruton agammaglobulinemia tyrosine kinase (BTK) as transfection-ready DNA
Effect:	Ammlobulinemi
Symbol:	BTK
Synonyms:	AGMX1; AT; ATK; BPK; IGHD3; IMD1; PSCTK1; XLA
E. coli Selection:	Kanamycin (25 ug/mL)
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
Tag:	Myc-DDK
ACCN:	NM_000061
ORF Size:	876 bp
Restriction Sites:	Sgfl-Mlul



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ORF Nucleotide Sequence:

>RC400852 representing NM_000061
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGGATCGCC

ATGGCCGCAGTGATTCTGGAGAGCATCTTTCTGAAGCGATCCCAACAGAAAAAGAAAACATCACCTCTAA
ACTTCAAGAAGCGCCTGTTTCTTTGACCGTGCACAACTCTCCTACTATGAGTATGACTTTGAACGTGG
GAGAAGAGGCAGTAAGAAGGTTCAATAGATGTTGAGAAGATCACTTGTGTTGAAACAGTGGTTCCTGAA
AAAAATCTCCTCCAGAAAGACAGATTCGAGAAGAGGTGAAGAGTCCAGTGAAATGGAGCAAATTTCAA
TCATTGAAAGGTTCCCTTATCCCTTCCAGGTTGTATATGATGAAGGGCCTCTCTACGCTTCTCCCAAC
TGAAGAATAAGGAAGCGGTGGATTACCAGCTCAAAAACGTAATCCGGTACAACAGTGATCTGGTTCAG
AAATATCACCTTGCTTCTGGATCGATGGCAGTATCTCTGCTGCTCTCAGACAGCCAAAAATGCTATGG
GCTGCCAAATTTGGAGAACAGGAATGGAAGCTTAAAACCTGGGAGTTCTCACCGAAGACAAAAAGCC
TCTTCCCAACGCCTGAGGAGGACCAGATCTTAAAAAGCCACTACCGCCTGAGCCAGCAGCAGCACCA
GTCTCCACAAGTGAGCTGAAAAAGGTTGTGGCCCTTTATGATTACATGCCAATGAATGCAATGATCTAC
AGCTGCGGAAGGGTGATGAATATTTTATCTTGGAGGAAAGCAACTTACCATGGTGAGAGACAGAGATAA
AAATGGGCAGGAAGGCTACATTCCTAGTAACTATGCTACTGAAGCAGAAGACTCCATAGAAATGTATGAG
TGGTATCCAAACACATGACTCGGAGTCAGGCTGAG

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGA TAAGGTTTAA

Protein Sequence:

>RC400852 representing NM_000061
Red=Cloning site Green=Tags(s)

MAAVILESIFLKRQKQKKTSPNFKKRLFLLTVHKLSYYEYDFERGRGSKKGSIDVEKITCVETVVP
KNPPPERQIPRRGEESSEMEQISIERFPYPFQVYDEGPLYVFSPTTEELRKRWIHQKKNVIRYNSDLVQ
KYHPCFWIDGQYLCCSQTAKNAMGCQILENRNGSLKPGSSHRKTKKPLPPTPEEDQILKKPLPPEPAAAP
VSTSELKKVVALYDYMPMNANDLQLRKGDYF ILEESNLPWWRARDKNGQEGYIPSNYVTEAEDSIEMY
WYSKHMTRSQA

SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

MW: 32.1 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]