

Product datasheet for **SC337217**

BTK (NM_001287344) Human Untagged Clone

Product data:

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



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001287344, the custom clone sequence may differ by one or more nucleotides

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ATGCCAGTTGGTCCATTCAACAAATGGTTATTGGATGCCATTATGTGGCAGGCACTGTTCCGGGGGAG
AGCACACAGGTGAACTCCAGAAAAGAAGCTATGGCCGCACTGATTCTGGAGAGCATCTTCTGAAGCG
ATCCCAACAGAAAAGAAAACATCACCTCTAAACTTCAAGAAGCGCCTGTTTCTCTTGACCGTGCACAAA
CTCTCCTACTATGAGTATGACTTTGAACGTGGGAGAAGAGGCAGTAAGAAGGGTTCAATAGATGTTGAGA
AGATCACTTGTGTTGAAACAGTGGTTCCCTGAAAAAAATCCTCCTCCAGAAAGACAGATTCCGAGAAGAGG
TGAAGAGTCCAGTGAAATGGAGCAAATTTCAATCATTGAAAGGTTCCCTTATCCCTTCCAGGTTGTATAT
GATGAAGGGCCTCTACGTCTTCTCCCAACTGAAGAACTAAGGAAGCGGTGGATTCCACAGCTCAAAA
ACGTAATCCGGTACAACAGTGATCTGGTTCAGAAATATCACCTTGCTTCTGGATCGATGGGCAGTATCT
CTGCTGCTCTCAGACAGCAAAAATGCTATGGGCTGCCAAATTTGGAGAACAGGAATGGAAGCTTAAAA
CCTGGGAGTTCTACCGAAGACAAAAAGCCTTCCCAACGCCTGAGGAGGACCAGATCTTAAAA
AGCCACTACCGCCTGAGCCAGCAGCAGCACCAGTCTCCACAAGTGAGCTGAAAAAGGTTGTGGCCCTTTA
TGATTACATGCCAATGAATGCAAATGATCTACAGCTGCGGAAGGGTGATGAATATTTATCTTGGAGGAA
AGCAACTTACCATGGTGGAGAGCACGAGATAAAAAATGGGCAGGAAGGCTACATTCCTAGTAACTATGTCA
CTGAAGCAGAAGACTCCATAGAAATGTATGAGTGGTATTCAAAACACATGACTCGGAGTCAAGGCTGAGCA
ACTGCTAAAGCAAGAGGGGAAAGAAGGAGGTTTCATTGTGAGAGACTCCAGCAAAGCTGGCAAATATACA
GTGTCTGTGTTTGTAAATCCACAGGGGACCTCAAGGGGTGATACGTCAATATGTTGTGTGTTCCACAC
CTCAGAGCCAGTATTACCTGGCTGAGAAGCACCTTTTCCAGCACCCTGAGCTCATTAACTACCATCA
GCACAACCTGTCAGGACTCATATCCAGGCTCAAATATCCAGTGTCTCAACAAAACAAGAATGCACCTTCC
ACTGCAGGCCTGGGATACGGATCATGGGAAATGATCCAAAGGACCTGACCTTCTTGAAGGAGCTGGGGA
TTGGACAATTTGGGGTAGTGAAGTATGGGAAATGGAGAGGCCAGTACGAGTGGCCATCAAGATGATCAA
AGAAGGCTCCATGTCTGAAGATGAATTCATTGAAGAAGCCAAAGTCATGATGAATCTTCCCATGAGAAG
CTGGTGCAGTTGTATGGCGTCTGCACCAAGCAGCGCCCATCTTCATCATCACTGAGTACATGGCCAATG
GCTGCCTCCTGAACTACCTGAGGGAGATGCGCCACCGCTTCCAGACTCAGCAGCTGCTAGAGATGTGCAA
GGATGTCTGTGAAGCCATGGAATACCTGGAGTCAAAGCAGTTCCTTACCAGGACCTGGCAGCTCGAAAC
TGTTTGGTAAACGATCAAGGAGTTGTTAAAGTATCTGATTTCCGCCTGTCCAGGTATGCTCTGGATGATG
AATACACAAGCTCAGTAGGCTCAAATTTCCAGTCCGGTGGTCCCACCGGAAGTCTGATGATAGCAA
GTTCCAGCAGCAAATCTGACATTTGGGCTTTGGGGTTTTGATGTGGGAAATTTACTCCCTGGGGAAGATG
CCATATGAGAGATTTACTAACAGTGAAGTCTGTAACACATTGCCAAGGCTACGTCTCTACAGGCCTC
ATCTGGCTTCCAGAGAAGGTATATACCATCATGTACAGTTGCTGGCATGAGAAAGCAGATGAGCGTCCAC
TTTCAAATTTCTCTGAGCAATATTCTAGATGTATGGATGAAGAATCC TGA
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Restriction Sites: SgfI-MluI

ACCN: NM_001287344

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).

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:	<ol style="list-style-type: none">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:	<u>NM_001287344.1</u> , <u>NP_001274273.1</u>
RefSeq Size:	2767 bp
RefSeq ORF:	2082 bp
Locus ID:	695
UniProt ID:	<u>Q06187</u>
Cytogenetics:	Xq22.1
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	B cell receptor signaling pathway, Fc epsilon RI signaling pathway, Primary immunodeficiency
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR and CDS, and represents the use of an alternate promoter, compared to variant 1. The resulting protein (isoform 3) has a longer N-terminus, compared to isoform 1.</p>