

Product datasheet for **SC338009**

IBTK (NM_001300906) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IBTK (NM_001300906) Human Untagged Clone
Tag:	Tag Free
Symbol:	IBTK
Synonyms:	BTBD26; BTKI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001300906, the custom clone sequence may differ by one or more nucleotides

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ATGAGTTCACCCATGCCTGACTGCACATCAAAGTGTGCGATCCCTGAAGCATGCTTTGGATGTCCTTTCTG
TGGTAACAAAGGGGAGCGAAAACAGATTAAGGCCTTTCTCTCCAGTCATTGTTACAATGCTGCAACTAT
CAAGGATGTTTTTGGCAGGAATGCCCTCCACCTTGTTTCTCCTGTGGAAGAAAGGAGTGTTAGATTGG
CTTATTCAGAAAGGAGTGGATCTGTTGGTGAAAGACAAAGAGTCTGGATGGACAGCATTGCACAGAAGCA
TTTTTTATGGACATATTGATTGTGTTGGTCTCTATTGAAGCATGGTGTTAGTCTGTATATTCAAGATAA
AGAAGGCTTGTGAGCTTTGGATCTTGAATGAAGGATAGACCAACTCATGTAGTATTCAAGAATACTGAT
CCTACAGATGTTTATACTTGGGCGGATAATACAAATTTTACCCTGGGTCATGGAAGCCAGAATAGCAAAC
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TCACTCCGTGTTTCTGTCTCAGAAAGGGCAGGTTTATACCTGTGGTCATGGTCCTGGAGGGCGATTAGGA
CATGGAGATGAACAGACATGCTTGGTCCCTCGGCTTGTTGGAAGGACTGAATGGTCATAATTGTTCCCAAG
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AATTCCAGCTGTGTCTCATCATCCTTTTTGAAGAGTTTGGCAAAGTGTGAGGGAAGCAGATGAAATG
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 AAATGATTGCATTGACTACCAAGGAAAACAATTCAGGAATGAATAGCATGGAAACAGTTTATTCACTCC
 TTCAAAGCCCCAAACAGTGAATGCATGGGCATCTTCTCTGCATTAGTTTTCATCCAAGTCATTCGGG
 GATTTCTTACTAGAAGAAAAAAGTCTGTTACTAGCCATAGTTTCAGGCGATCATGTCAAAAAAGTTTCTT
 TTAAGGAATGAAAATTTCTCAGGCACCAAAAATGTGATGCTCTACCCATGGTACCCAGGACCAGA
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 CCATCCATGGTAGCCCCAGTCACTTTTGCATCTATTGTAGAAGAAGAACTACAACAAGAAGCAGCTCTTA
 TTAGAAGTCGAGAAAAACCGTTGGCTCTGATTGAGGAGCATGCCATACAAGATTTATTGTTTTT
 CTATGAGGCATTTGGCAACCCTGAAGAGTTTGTGATTGTTGAAAGGACACCGCAGGGACCACTGGCAGTA
 CCTATGTGGAATAAGCATGGATGCTAG

Restriction Sites: SgfI-MluI

ACCN: NM_001300906

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:	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_001300906.1, NP_001287835.1</u>
RefSeq Size:	6021 bp
RefSeq ORF:	4017 bp
Locus ID:	25998
UniProt ID:	<u>Q9P2D0</u>
Cytogenetics:	6q14.1
Protein Families:	Druggable Genome
Gene Summary:	Bruton tyrosine kinase (BTK) is a protein tyrosine kinase that is expressed in B cells, macrophages, and neutrophils. The protein encoded by this gene binds to BTK and downregulates BTK's kinase activity. In addition, the encoded protein disrupts BTK-mediated calcium mobilization and negatively regulates the activation of nuclear factor-kappa-B-driven transcription. This gene has a pseudogene on chromosome 18. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2014] Transcript Variant: This variant (2) uses an alternate in-frame splice acceptor site in the 3' coding region, compared to variant 1. It encodes a shorter isoform (2), compared to isoform 1.