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# Product datasheet for SC127308

## IBTK (NM_015525) Human Untagged Clone

### Product data:

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|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | IBTK (NM_015525) Human Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | IBTK |
| **Synonyms:** | BTBD26; BTKI |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pCMV6-XL4 |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |
| **Fully Sequenced ORF:** | >NCBI ORF sequence for NM_015525, the custom clone sequence may differ by one or more nucleotides |

ATGAGTTCACCCATGCCTGACTGCACATCAAAGTGTCGATCCCTGAAGCATGCTTTGGATGTCCTTTCTG
TGGTAACAAAGGGGAGCGAAAACCAGATTAAGGCCTTTCTCTCCAGTCATTGTTACAATGCTGCAACTAT
CAAGGATGTTTTTGGCAGGAATGCCCTCCACCTTGTTTCCTCCTGTGGAAAGAAAGGAGTGTTAGATTGG
CTTATTCAGAAAGGAGTGGATCTGTTGGTGAAAGACAAAGAGTCTGGATGGACAGCATTGCACAGAAGCA
TTTTTTATGGACATATTGATTGTGTTTGGTCTCTATTGAAGCATGGTGTTAGTCTGTATATTCAAGATAA
AGAAGGCTTGTCAGCTTTGGATCTTGTAATGAAGGATAGACCAACTCATGTAGTATTCAAGAATACTGAT
CCTACAGATGTTTATACTTGGGGCGATAATACAAATTTTACCCTGGGTCATGGAAGCCAGAATAGCAAAC
ATCATCCAGAGTTGGTGGATCTGTTCTCCAGGAGTGGGATTTATATCAAGCAGGTGGTGCTTTGTAAATT
TCACTCCGTGTTTCTGTCTCAGAAAGGGCAGGTTTATACCTGTGGTCATGGTCCTGGAGGGCGATTAGGA
CATGGAGATGAACAGACATGCTTGGTCCCTCGGCTTGTGGAAGGACTGAATGGTCATAATTGTTCCCAAG
TGGCAGCTGCTAAGGATCATACTGTTGTATTAACTGAAGATGGATGTGTTTATACATTTGGTCTAAACAT
TTTTCATCAATTAGGAATTATTCCACCGCCTTCCAGTTGTAATGTACCCAGACAGATACAGGCAAAATAT
CTGAAAGGAAGGACAATCATTGGCGTTGCAGCAGGCAGGTTTCATACAGTCCTATGGACTAGAGAAGCTG
TTTACACTATGGGACTAAATGGTGGACAACTGGGTTGTTTGCTAGATCCCAATGGAGAAAAGTGTGTAAC
TGCTCCTCGTCAGGTCTCTGCCCTTCACCATAAAGACATTGCTCTGTCTTTGGTTGCTGCAAGTGATGGA
GCTACAGTCTGTGTTACCACAAGGGGAGATATTTACTTACTTGCAGACTATCAGTGCAAGAAGATGGCTT
CTAAACAGTTGAACTTGAAAAAAGTTCTTGTGTCTGGGGGTCATATGGAATACAAGGTTGATCCTGAACA
TTTGAAAGAAAATGGGGGTCAAAAAATTTGCATTCTTGCAATGGATGGAGCTGGAAGGGTGTTTTGCTGG
AGATCAGTCAACAGTTCTCTGAAGCAGTGTCGATGGGCCTATCCACGTCAGGTCTTCATTTCTGATATTG
CTTTAAATAGAAATGAAATTCTATTTGTTACGCAAGATGGAGAAGGATTTAGAGGGAGATGGTTTGAAGA
GAAAAGAAAGAGTTCTGAAAAGAAAGAGATTTTATCAAACCTTCACAATTCCTCATCAGATGTGTCTTAT
GTCTCTGATATAAATAGTGTGTATGAAAGAATTCGACTTGAGAAACTTACCTTTGCACATAGAGCTGTTA
GTGTCAGCACAGATCCAAGTGGATGCAACTTTGCAATCCTGCAGTCAGATCCTAAAACAAGCCTTTATGA



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AATTCCAGCTGTGTCCTCATCATCCTTTTTTGAAGAGTTTGGCAAACTGTTGAGGGAAGCAGATGAAATG
GACAGCATTCATGATGTGACATTTCAAGTTGGCAATAGACTCTTCCCTGCACATAAATATATTTTGGCAG
TGCATTCTGATTTTTTTCAGAAATTGTTTCTTTCAGATGGTAATACTTCAGAATTTACAGATATTTACCA
GAAAGATGAAGATTCTGCAGGGTGCCATCTCTTTGTGGTAGAGAAGGTTCATCCTGACATGTTTGAATAC
CTTTTACAATTTATATACACAGATACTTGTGACTTTTTAACTCATGGCTTCAAACCAAGAATACACTTAA
ACAAAAACCCAGAAGAATATCAGGGAACTCTGAATTCTCATTTGAATAAAGTGAATTTCCATGAAGATGA
TAACCAGAAGTCTGCATTTGAAGTTTACAAAAGTAATCAAGCTCAAACAGTTAGTGAGAGGCAGAAGAGC
AAACCTAAATCTTGTAAAAAAGGAAAAAATATTAGGGAAGATGATCCTGTAAGAATGTTGCAAACTGTTG
CAAAGAAATTCGACTTCAGTAATTTGAGTAGTAGGTTAGATGGAGTCAGATTTGAAAATGAAAAAATTAA
TGTTATTGCCAAGAACACTGGTAATAAACTGAAGCTAAGTCAGAAAAAATGTTCATTTCTGTGTGACGTG
ACCATGAAATCAGTGGATGGAAAGGAATTTCCTTGTCATAAATGTGTTCTTTGTGCTAGACTTGAATATT
TTCATAGTATGCTGAGTAGCTCATGGATTGAGGCTTCCAGTTGTGCAGCTCTGGAAATGCCAATACATTC
TGATATATTAAAAGTTATTTTGGACTACCTCTATACTGATGAAGCTGTGGTGATAAAAGAATCTCAAAAT
GTAGATTTTATTTGTAGTGTTCTTGTGGTGGCTGATCAACTTCTCATAACCCGGTTGAAAGAGATTTGTG
AAGTAGCATTAACTGAAAAACTTACCCTGAAGAATGCTGCTATGCTACTGGAATTTGCAGCAATGTATAG
TGCAAAACAGTTGAAACTGTCTTGTTTACAGTTTATAGGATTGAATATGGCAGCTTTACTTGAAGCAAGG
TCTCTTGATGTTTTAAGCGATGGTGTTTTGAAGGATCTTTCTGAGTTTTACCGGAAAATGATTCCAGCAA
TGGATAGAAGAGTCATTACACCATATCAAGATGGACCAGATATTAGCTATTTGGAAGTAGAAGATGGAGA
TATCTTCTTGAAAGAAGAAATAAATATGGAACAAAATCATTCGGAAACTATGTTCAAGAAAGCAAAAACA
AAAGCTAAAAAGAAGCCACGTAAACGTTCAGATAGTTCTGGAGGTTATAACCTTTCAGATATTATTCAGA
GTCCATCATCTACAGGATTATTAAAGTCTGGTAAGACCAATTCTGTGGAATCTCTTCCAGAACTGTTGAC
ATCAGACTCTGAAGGAAGCTATGCAGGAGTGGGTAGTCCTAGAGATTTACAGTCCCCTGATTTCACAACA
GGATTTCATTCAGATAAGATTGAGGCGAAAGTCAAACCGTATGTTAATGGTACATCTCCTGTGTATTCTA
GGGAAGATTTAAAACCATGGGAAAAGTCACCAATACTTAAAATATCTGCTCCACAGCCTATTCCCAGTAA
CAGAATTGATACTACCAGCTCTGCCAGTTGGGTTGCTGGTTCTTTCAGTCCTGTCAGCCCTCCTGTTGTG
GATCTCAGAACTATCATGGAAATAGAAGAAAGTAGACAAAAATGTGGAGCTACACCAAAGTCACATTTAG
GCAAAACAGTTTCTCATGGAGTTAAACTTTCTCAGAAGCAACGAAAAATGATTGCATTGACTACCAAGGA
AAACAATTCAGGAATGAATAGCATGGAAACAGTTTTATTCACTCCTTCAAAAGCCCCCAAACCAGTGAAT
GCATGGGCATCTTCTCTGCATTCAGTTTCATCCAAGTCATTCCGGGATTTCTTACTAGAAGAAAAAAAGT
CTGTTACTAGCCATAGTTCAGGCGATCATGTCAAAAAAGTTTCTTTTAAAGGAATTGAAAATTCTCAGGC
ACCAAAAATTGTCAGATGCTCTACCCATGGTACCCCAGGACCAGAAGGCAACCATATTTCAGATTTACCA
CTTCTAGACAGTCCCAATCCCTGGCTATCTTCTTCAGTGACTGCTCCATCCATGGTAGCCCCAGTCACTT
TTGCATCTATTGTAGAAGAAGAACTACAACAAGAAGCAGCTCTTATTAGAAGTCGAGAAAAACCGTTGGC
TCTGATTCAGATTGAGGAGCATGCCATACAAGATTTATTGGTTTTCTATGAGGCATTTGGCAACCCTGAA
GAGTTTGTCATTGTTGAAAGGACACCGCAGGGACCACTGGCAGTACCTATGTGGAATAAGCATGGATGCT
AG

**5' Read Nucleotide Sequence:**

```
>OriGene 5' read for NM_015525 unedited
GTATACGACTCCTATAGGCGGCCGCGAATTCGGCACGAGGCTGTATTGCAGCCGCCTGCC
GAACTGACCCGGGTCTGGGGACTGGCCCCTCTGGCGCCGTTCGGTTTCTCTTATTGCCTT
CACTGAGGATGAGTCCCTTTGTGGCTCTATGTGGACCCTGCGGAATCCACCGGCGCAGTT
TCATCTAGCGACTGGTCACCCTTGCAATTATGGATATTTAAAAGGGTCAGACATGTGGAT
GAGGGGGAGTTCCCCTTCTCACTCCCCCTTGGTGCTTGACTCCAGGAATAATATATAAAC
TGTGGAATTTTTTTAAATGAAGAACTTGTATTTGATATGAACTGTATAGAGATATTTATA
ATTTTTTTGATTTAAGTGCCAAAAAATTGTATAAAGATATATAGTTTTATACTATTGTCA
GGAGGATTTAAATTATCCTAAAAAGTCATTGATACAATGCTGCAACTATCAAGGATGTTT
TTGGAAAGAATGCCCTCCACCTTGTTTACTCCTGAGAAAAGAAAGGAATGTTAAATTGGC
TTATTCATAAAGGAGTGGATCTGTTGGAGAAAGACAAAGAGTCTGGATGGACAGCATTGC
ACAGAAACATTTTTTATGGACATATTGAAAGCGTTTGGTATCTATTGAAGCATGGTGGTA
GTCTGTATATTCAAGATAAAGAAGGCTTGTCAACTTTAGATCTTGTGATGAACGATAGAC
CAACTCATGTAGTAATGAAGAATACTGATACTACAGATGTTTATACTTGGGGCGATAATA
CAAATAATACCCTGCGTCATGGGAAGCCACATAGCAAACATCATGCAGAGTTGGTGGATC
TGTTCTGCAGCAGTGAGATCATATCAAGCAGTTGCGCTTTGTAATTTCACTCAGTGTTCT
GTCTTAAAAAGGCAGTTATACCTGGGTAATGGACCGAAAGCAATTAGACATGAAA
```

**Restriction Sites:** NotI-NotI

**ACCN:** NM_015525

**Insert Size:** 5000 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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

**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_015525.2, NP_056340.2

**RefSeq Size:** 5775 bp

| | |
|---|---|
| **RefSeq ORF:** | 4062 bp |
| **Locus ID:** | 25998 |
| **UniProt ID:** | Q9P2D0 |
| **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 (1) represents the longer transcript and encodes the longer isoform (1). |