

Product datasheet for **SC323441**

BMX (NM_001721) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BMX (NM_001721) Human Untagged Clone
Tag:	Tag Free
Symbol:	BMX
Synonyms:	ETK; PSCTK2; PSCTK3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001721, the custom clone sequence may differ by one or more nucleotides

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ATGGATACAAAATCTATTCTAGAAGAATTCTTCTCAAAAGATCACAGCAAAAGAAGAAAATGTCACCAA
ATAATTACAAAGAACGGCTTTTTGTTTTGACAAAAACAACTTCTCTACTATGAATATGACAAAATGAA
AAGGGGCAGCAGAAAAGGATCCATTGAAATTAAGAAAATCAGATGTGTGGAGAAAGTAAATCTCGAGGAG
CAGACGCCTGTAGAGAGACAGTACCCATTTAGATTGTCTATAAAGATGGGCTTCTCTATGTCTATGCAT
CAAATGAAGAGAGCCGAAGTCAGTGGTTGAAAGCATTACAAAAAGAGATAAGGGGTAACCCCCACCTGCT
GGTCAAGTACCATAGTGGTTCTTCGTGGACGGGAAGTTCCTGTGTTGCCAGCAGAGCTGTAAGAGCACC
CCAGGATGTACCTCTGGGAAGCATATGCTAATCTGCATACTGCAGTCAATGAAGAGAAACACAGAGTTC
CCACCTTCCCAGACAGAGTGTGAAGATACCTCGGGCAGTTCCTGTTCTCAAAATGGATGCACCATCTTC
AAGTACCCTCTAGCCCAATATGACAACGAATCAAAGAAAACTATGGCTCCCAGCCACCATCTTCAAGT
ACCAGTCTAGCGCAATATGACAGCAACTCAAAGAAAATCTATGGCTCCCAGCCAACTTCAACATGCAGT
ATATTCCAAGGGAAGACTTCCCTGACTGGTGGCAAGTAAAGAAAAGTAAAAGTAGCAGCAGCAGTGAAGA
TGTTGCAAGCAGTAACCAAAAAGAAAGAAATGTGAATCACACCACCTCAAAGATTCATGGGAATCCCT
GAGTCAAGTTCATCTGAAGAAGAGGAAAACCTGGATGATTATGACTGGTTTGTGGTAACATCTCCAGAT
CACAATCTGAACAGTTACTCAGACAAAAGGAAAAGAAAGGAGCATTATGGTTAGAAAATTCGAGCCAAAGT
GGGAATGTACACAGTGTCTTATTTAGTAAGGCTGTGAATGATAAAAAAGGAACTGTCAAACATTACCAC
GTGCATACAAATGCTGAGAACAAATTAACCTGGCAGAAAAGTACTGTTTTGATTCCATTCCAAAGCTTA
TTCATTATCATCAACACAATTCAGCAGGCATGATCACACGGCTCCGCCACCCTGTGTCAACAAAGGCCAA
CAAGTCCCGACTCTGTGTCCCTGGGAAATGGAATCTGGGAAGTAAAAGAGAAGAGATTACCTTGTGG
AAGGAGCTGGGAAGTGGCCAGTTTGGAGTGGTCCAGCTGGCAAGTGAAGGGGCAGTATGATGTTGCTGT
TTAAGATGATCAAGGAGGGCTCCATGTCAGAAGATGAATTCCTTTCAGGAGGCCAGACTATGATGAAACT
CAGCCATCCCAAGCTGGTAAATTTCTATGGAGTGTGTTCAAAGGAATACCCCATATACATAGTGACTGAA
TATATAAGCAATGGCTGCTTGTGAATTACCTGAGGAGTACGGAAGGAAAGGACTTGAACCTTCCCAGCTCT
TAGAAAATGTGCTACGATGTCTGTGAAGGCATGGCCTTCTTGGAGAGTACCAATTCATACACCGGGACTT
GGCTGCTCGTAACTGCTTGGTGGACAGAGATCTCTGTGTGAAAGTATCTGACTTTGGAATGACAAGGTAT
GTTCTTGATGACCAGTATGTCAGTTCAGTCGGAACAAAGTTTCCAGTCAAGTGGTCCAGCTCCAGAGGTGT
TTCATTACTTCAAATACAGCAGCAAGTCCAGACGTATGGGCATTTGGGATCCTGATGTGGGAGGTGTTCCAG
CCTGGGGAAGCAGCCCTATGACTTGTATGACAACCTCCAGGTGGTCTGAAGGTCTCCAGGGCCACAGG
CTTTACCGGCCACCTGGCATCGGACACCATCTACCAGATCATGTACAGCTGCTGGCAGCAGCTCCAG
AAAAGCGTCCACATTTAGCAACTCTGTCTTCCATTGAACCACTTCGGGAAAAGACAAGCATTGA
    
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5' Read Nucleotide Sequence:

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>OriGene 5' read for mutant NM_001721 unedited
ACCGCCCGTTGAGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTGTAGT
AACCGTACAGAATTTTGAATACGACTCACTATAGGGCGGCGCGAATTCGGCACGAGGCTGCAACAGCAG
ACCAAGCACCGCGGGGGCCAGGCAAGCACGGAACAAGCTGAGACGGATGATAATATGGATACAAAATC
TATTCTAGAAGAACTTCTTCTCAAAAGATCACAGCAAAAGAAGAAAATGTCACCAAAATAATTACAAAGAA
CGGCTTTTTGTTTTGACCAAAACAACTTCTCTACTATGAATATGACAAAATGAAAAAGGGGCAGCAGA
AAAAGGATCCATTGAAATTAAGAAAAATCAGATGTGTGGGAGAAAAGTAAATCTCGGGGAGCAGACCGC
CCTGTAGAAGAAGACAGTACCCATTTAAGATTGTCTTATAAAGAAGGGGCTTTCTCTTATGTCTATGCAT
TAAATGAGAAGAGCCGAGTTCAGTGGTTGAAAGCTTTCAAAAAGAGAATAAGGGGTAAACCCACC
CGGCTGGCAAATAACCTTGTGGGTCTTCGGTGGGACGGGAAAGTTCCTGTGTGTTGCACCGAGAACGTG
TAAACGAGCCCAGGAATGTACCTCTCGGAAAAGCATATGCTTTCGCGCAGTCCGAGCTAAATAGAGAGA
ACACAAATTTCCACCTCTCCAGAGACAGTGCAGAGAGAACTCTGGCGATTCTCGTGTCTAAAAGGGGTG
CACCTTCTCGATCACATCTATCGCCATGTGACACGTATCAGAGAACCTGTCCCACACCACTCCTGTCCGC
TACACGCATGACGCCCTCTCAAAATTTGTGTCACGACAATCTACAGCGGAATTCGGGAGAACTCTCGCAT
GTGCCGCTAACTAGATAGTACGCCCTGGTATTGTACATCCAAAGAGTGAGTTACCTCATATGGA
    
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Kinase Domain Sequence:	>SC323441 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation AWCTTGCTGATGAGCTGGGAGTGGCCAGTTTGGAGTGGTCCAGCTGGGCAAGTGGGAAGGGGCAGTATGAT GTTGCTGTTATGATGATCAAGGAGGGCTCCATGTCAGAAGATGAATTCCTTCAGGAGGCCAGACTATGA TGAAACTCAGCCATCCCAAGCTGGTAAATTCTATGGAGTGTGTTCAAAGGAATACCCCATATACATAGT GACTGAATATATAAGCAATGGCTGCTTGCTGAATTACCTGAGGAG
Restriction Sites:	Please inquire
ACCN:	NM_001721
Insert Size:	2300 bp
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).
OTI Annotation:	This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell. 2008 May p536-548.
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:	NM_001721.4 , NP_001712.1
RefSeq Size:	2514 bp
RefSeq ORF:	2028 bp
Locus ID:	660
UniProt ID:	P51813
Cytogenetics:	Xp22.2
Domains:	pkinase, SH2, TyrKc, BTK, PH, S_TKc
Protein Families:	Druggable Genome, Protein Kinase

Gene Summary:

This gene encodes a non-receptor tyrosine kinase belonging to the Tec kinase family. The protein contains a PH-like domain, which mediates membrane targeting by binding to phosphatidylinositol 3,4,5-triphosphate (PIP3), and a SH2 domain that binds to tyrosine-phosphorylated proteins and functions in signal transduction. The protein is implicated in several signal transduction pathways including the Stat pathway, and regulates differentiation and tumorigenicity of several types of cancer cells. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Mar 2016]

Transcript Variant: This variant (2) has an alternate 5' non-coding exon compared to variant 1. Variants 1 and 2 encode the same isoform (1).