

## Product datasheet for **MC220149**

### **Bmx (NM\_009759) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Bmx (NM_009759) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Bmx
Synonyms:	Etk; Etk/Bmx; Tyro8
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC220149 representing NM\_009759  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACGACAATATGGAGAGTAAATCCATTCTGGAAGAACTGCTTCTCAAAAAGTCACAGCAAAAAGAAGA  
 AAATGTCACCAAATAATTACAAGGAGCGGCTTTTTGTTCTAACCAAAAACAAGCCTTCTACTATGAATA  
 CGCAAAAATGAAAAGAGGAAGCAGAAAAGGATCAATAGAAATTAAGAAAATCAGATGTGTGGAAAAAGTC  
 AACCTTGAGGAGCAGACACCGGTGGAGAGACAGTACCCATTTAGATTGTGTATAAAGATGGGCTTCTTT  
 ATGTCTATGCATCGAATGAAGAGAGCCGATGTCAGTGGTAAAAGCGCTGCAAAAAGAGATACGGGGCAA  
 CCCTCACCTGTTGATCAAGTATCACAGTGGCTTCTTTGTGGATGGAAAGTTCTGTGTTGCCAGCAGAGC  
 TGCAAAGCAGCCCAGGATGCACTCTCTGGGAAGCATATGCTGATCTGCACATCGCAATCAGTGATGAGA  
 AACACAGAGCTCCCACTTCCAGAGAGGCTACTGAAGATTCAGGGCAGTTCCCGTTCTCAAAATGGA  
 TGCATCATCTTCAGGTGCCATTCTACCCAATATGACAGCTATTCAGAAAAGTTGTGGTTCCAGCCA  
 ACCAGCAACATACGCTATATTCCAAGGGAAGACTGCCCTGACTGGTGGCAAGTAAGAAAAGTGAAGAGCG  
 AGGAAGACATTGCATGCAGTAACCAACTGGAAAGAAATATCGCCTCTCACAGCACCTCAAAGATGTCATG  
 GGGATTCCTGAGTCAAGTTCATCAGAAGAAGAGGAAAATCTGCATGCTTATGACTGGTTTCTGGGAAT  
 ATCTCCAGGTCACAATCTGAGCAGTACTGAGACAAAAGGAAAAGAAAGGAGCATTTATGGTTCGGAAAT  
 CCAGCCAGATGGGAATGTACACTGTGTCCTTATTTAGTAAGGCTGTAATGATAAAAAAGGAACTGTCAA  
 GCATTACCACGTGCATACTAATGCTGAAAATAAATATACTGGCTGAAAAGTACTGCTTTGATTCCATT  
 CCAAAGCTCATTACTATACCAACATAATTCAGCAGGCATGATCACACGGCTCCGCCACCCAGTGTCAA  
 CCAAGGCCAACAAAGGTCGGGTGTCTGTGGCTCTGGGAAGTGAATTTGGGAAGTGAAGAGAGAGAT  
 TACCTTGCTGAAGGAGCTGGGCAATGGCCAGTTTGGAGTGGTCCAGCTGGGCCAGTGAAGGGGCAATAT  
 GATGTGGCTGTAAGATGATCAAGGAGGTGCCATGTCAGAAGATGAATCTTTTCAGGAGGCCAGACCA  
 TGATGAAACTCAGCCATCCCAAGCTGGTGAAGTTCTACGGAGTATGCTCAAAGAAATACCCCATCTATAT  
 AGTAACTGAGTATATAACAAATGGTTGCTTGTCTAATTACCTGAAGAGTCATGGGAAAGGACTAGAAAGT  
 TGCCAGCTCTTAGAAATGTGTTATGATGTCTGTGAAGGCATGGCCTTCTTGAGAGCCATCAGTTCATAC  
 ATCGAGATTTGGCTGCTCGAACTGTTTGGTGGACAGTATCTCTGTGAAAGTCTCAGACTTTGGAAT  
 GACGAGATATGTCCTTGATGATCAGTATGTCAGCTCAGTAGGAACCAAGTTCCAGTCAAGTGGTCAGCT  
 CCAGAGGTGTTTCACTACTTCAAATACAGCAGCAAGTCGGATGTATGGGCATTTGGGATCCTGATGTGGG  
 AGGTGTTTGTAGTCTAGGGAAGCAGCCATGACTTATATGATAACTCCGAGGTGGTGTGAAGGTCTCCCA  
 GGGCCACAGACTCTACCGCCCCAACTGGCATCAGACACCATCTACCAGATCATGTACAGCTGCTGGCAT  
 GAGCTTCCAGAAAAGCGCCCCACATTTAGCAACTCTGTCTGCCATAGAACCCTTCGGGAACAAGATA  
 AACCATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_009759
- Insert Size:** 1968 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).
- 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\\_009759.4](#), [NP\\_033889.2](#)

**RefSeq Size:** 3005 bp

**RefSeq ORF:** 1968 bp

**Locus ID:** 12169

**UniProt ID:** [P97504](#)

**Cytogenetics:** X F5

**Gene Summary:** Non-receptor tyrosine kinase that plays central but diverse modulatory roles in various signaling processes involved in the regulation of actin reorganization, cell migration, cell proliferation and survival, cell adhesion, and apoptosis. Participates in signal transduction stimulated by growth factor receptors, cytokine receptors, G-protein coupled receptors, antigen receptors and integrins. Induces tyrosine phosphorylation of BCAR1 in response to integrin regulation. Activation of BMX by integrins is mediated by PTK2/FAK1, a key mediator of integrin signaling events leading to the regulation of actin cytoskeleton and cell motility. Plays a critical role in TNF-induced angiogenesis, and implicated in the signaling of TEK and FLT1 receptors, 2 important receptor families essential for angiogenesis. Required for the phosphorylation and activation of STAT3, a transcription factor involved in cell differentiation. Also involved in interleukin-6 (IL6) induced differentiation. Plays also a role in programming adaptive cytoprotection against extracellular stress in different cell systems, salivary epithelial cells, brain endothelial cells, and dermal fibroblasts. May be involved in regulation of endocytosis through its interaction with an endosomal protein RUFY1. May also play a role in the growth and differentiation of hematopoietic cells; as well as in signal transduction in endocardial and arterial endothelial cells.[UniProtKB/Swiss-Prot Function]