

Product datasheet for **RG221915**

BMX (NM_001721) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BMX (NM_001721) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BMX
Synonyms:	ETK; PSCTK2; PSCTK3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG221915 representing NM_001721
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGATACAAATCTATTCTAGAAGAACTTCTTCTCAAAAGATCACAGCAAAAGAAGAAAATGTCACCAA
ATAATTACAAAGAACGGCTTTTTGTTTTGACCAAAACAAACCTTCTACTATGAATATGACAAAATGAA
AAGGGGCAGCAGAAAAGGATCCATTGAAATTAAGAAAATCAGATGTGTGGAGAAAAGTAAATCTCGAGGAG
CAGACGCCTGTAGAGAGACAGTACCCATTTAGATTGTCTATAAAGATGGGCTTCTCTATGTCTATGCAT
CAAATGAAGAGAGCCGAAGTCAGTGGTTGAAAGCATTACAAAAGAGATAAGGGGTAAACCCACCTGCT
GGTCAAGTACCATAGTGGTTCTTCGTGGACGGGAAGTTCCTGTGTTGCCAGCAGAGCTGTAAGCAGCC
CCAGGATGTACCTCTGGGAAGCATATGCTAATCTGCATACTGCAGTCAATGAAGAGAAACAGAGTTC
CCACCTTCCCAGACAGAGTGTGAAGATACCTCGGGCAGTTCCTGTTCTCAAAATGGATGCACCATCTTC
AAGTACCCTCTAGCCCAATATGACAACGAATCAAAGAAAACCTATGGCTCCCAGCCACCATCTTCAAGT
ACCAGTCTAGCGCAATATGACAGCAACTCAAAGAAAATCTATGGCTCCCAGCCAACTTCAACATGCAGT
ATATTCGAAGGAAGACTTCCCTGACTGGTGGCAAGTAAGAAAACCTGAAAAGTAGCAGCAGCAGTGAAGA
TGTTGCAAGCAGTAACCAAAAAGAAAAGAAATGTGAATCACACCACCTCAAAGATTTTCATGGGAATCCCT
GAGTCAAGTTCATCTGAAGAAGAGGAAAACCTGGATGATTATGACTGGTTTGCTGGTAACATCTCCAGAT
CACAATCTGAACAGTTACTCAGACAAAAGGAAAAGAAAGGAGCATTATAGGTTAGAAAATTCGAGCCAAGT
GGGAATGTACACAGTGTCTTATTTAGTAAGGCTGTGAATGATAAAAAGGAACTGTCAAACATTACCAC
GTGCATACAAATGCTGAGAACAATTACCTGGCAGAAAACCTACTGTTTGGATTCCATTCAAAGCTTA
TTCATTATCATCAACACAATTCAGCAGGCATGATCACACGGCTCCGCCACCCTGTGTCAACAAAGGCCAA
CAAGGTCCCGACTCTGTGTCCCTGGGAAATGGAATCTGGGAACCTGAAAAGAGAAGAGATTACCTTGTTG
AAGGAGCTGGGAAGTGGCCAGTTTGGAGTGGTCCAGCTGGGCAAGTGGAAAGGGCAGTATGATGTTGCTG
TTAAGATGATCAAGGAGGGCTCCATGTCAGAAGATGAATTCCTTTCAGGAGGCCCAGACTATGATGAACT
CAGCCATCCCAAGCTGGTTAAATCTATGGAGTGTGTTCAAAGGAATACCCCATATACATAGTGACTGAA
TATATAAGCAATGGCTGCTTGTGAATTACCTGAGGAGTCACGAAAAGGACTTGAACCTTCCCAGCTCT
TAGAAATGTGCTACGATGTCTGTGAAGGCATGGCCTTCTTGGAGAGTCACCAATTCATACACCGGGACTT
GGCTGCTCGTAACTGCTTGGTGGACAGAGATCTCTGTGTGAAAGTATCTGACTTTGGAATGACAAGGTAT
GTTCTTGATGACCAGTATGTCAGTTCAGTCGGAACAAAGTTTCCAGTCAAGTGGTCAGCTCCAGAGGTGT
TTCATTACTTCAAATACAGCAGCAAGTCAGACGTATGGGCATTTGGGATCCTGATGTGGGAGGTGTTTCAG
CCTGGGGAAGCAGCCCTATGACTTGTATGACAACCTCCCAGGTGGTTCTGAAGGTCTCCCAGGGCCACAGG
CTTTACCGGCCCCACCTGGCATCGGACACCATCTACCAGATCATGTACAGCTGCTGGCAGCAGCTTCCAG
AAAAGCGTCCCACATTTAGCAACTCCTGTCTTCCATTGAACCACTTCGGGAAAAGACAAGCAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG221915 representing NM_001721
 Red=Cloning site Green=Tags(s)

```

MDTKSILEELLLKRSQQKKKMSPNNYKERLFVLTKTNLSYYEYDKMKRGRKGSIEIKKIRCVEKVNLEE
QTPVERQYPFQIVYKDGLLVYVASNEESRSQWLKALQKEIRGNPHLLVKYHSGFFVDGKFLCCQQSCKAA
PGCTLWEAYANLHTAVNEEKHRVPTFPDRVLKIPRAVPVLKMDAPSSSTLAQYDNESSKKNYGSQPPSSS
TSLAQYDSNSKKIYGSQPNFMQYIPREDFPDWWQVRLKSSSSSEDEVASSNQKERNVNHTTSKISWEFP
ESSSSEEEENLDDYDFWAGNISRSQSEQLLRQKKEGAFMVRNSSQVGMVTVSLFSKAVNDKKGTVKHYH
VHTNAENKLYLAENYCFDSIPKLIHYHQHNSAGMITRLRHPVSTKANKVPDSVSLNGIWEVKREEITLL
KELGSGQFGVVQLGKWKQYDVAVKMIKEGSMSEDEFFQEAQTMMLKSHPKLVKFGVCSKEYPIYIVTE
YISNGCLLNLYRSHGKLEPSQLLEMCYDVCEGMAFLSHQFIHRDLAARNCLVDRDLCKVKVSDFGMTRY
VLDDQYVSSVGTKFPVKWSAPEVFHYFKYSSKSDVWAFGILMWEVSLGKQPYDLYDNSQVVLKVSQGHR
LYRPHLASDTIYQIMYSCWHELPEKRPTFQQLLSSIEPLREKDKH
  
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001721

ORF Size: 2025 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001721.7](#)

RefSeq Size: 2514 bp

RefSeq ORF: 2028 bp

Locus ID: 660

UniProt ID: [P51813](#)

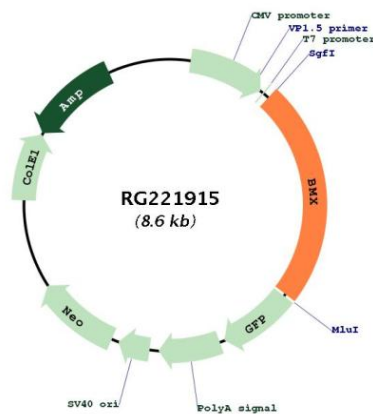
Cytogenetics: Xp22.2

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]

Product images:



Circular map for RG221915