

Product datasheet for **SC110519**

BMP2K (NM_017593) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BMP2K (NM_017593) Human Untagged Clone
Tag:	Tag Free
Symbol:	BMP2K
Synonyms:	BIKE; HRIHFB2017
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_017593, the custom clone sequence may differ by one or more nucleotides

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GAATTCGGCACCAGGCGACCCCTCGCGGACGCCGGCTGCGCGCCGGGCCGGGGACTTGCCTTGCACGC
TCCCTGCGCCCTCCAGCTCGCCGGCGGGACCATGAAGAAGTTCTCTCGGATGCCCAAGTCGGAGGGCGGC
AGCGGCGGCGGAGCGGCGGGTGGCGGGGCTGGCGGGGCCGGGGCCGGGGCCGGCTGCGGCTCCGGCGGCT
CGTCCGTGGGGTCCGGGTGTTTCGCGGTCGGCCGCCACCAGTCCACCTGGAAAGAGTCGCTGGCCGAAGG
TGGATTCTCCACAGTTTTCTCGTGCCTACTCACGGTGAATCCGATGTGCATTGAAGCGAATGTATGTC
AATAACATGCCAGACCTCAATGTTTGTAAAAGGAAATACAATTATGAAAGAGCTATCTGGTCACAAAA
ATATTGTGGGCTATTTGGACTGTGCTGTTAATTCAATTAGTGATAATGTATGGGAAGTCCTTATCTTAAT
GGAATATTGTCGAGCTGGACAGGTAGTGAATCAAATGAATAAGAAGCTACAGACGGGTTTTACAGAACCA
GAAGTGTACAGATATTCTGTGATACCTGTGAAGCTGTTGCAAGGTTGCATCAGTGAAGACTCCAATAA
TTCACCGGATCTGAAGAAAATATTTTGTGAATGATGGTGGAACTATGTACTTTGTGACTTTGGCAGT
GCCACTAATAAATTTCTAATCCTCAAAAAGATGGAGTTAATGTAGTAGAAGAAGAAATTAAGTATA
CAACTCTGTCATACAGAGCCCTGAAATGATCAACCTTTATGGAGGAAACCCATCACCACCAAGGCTGA
TATCTGGGCACTGGGATGTCTACTCTATAAACTTTGTTTCTTCACTCTTCTTTTGGTGAGAGTCAGGT
GCTATCTGTGATGGCAACTTCACCATCCAGACAATTCTCGTTACTCCCCTAACATACATTGCTTAATAA
GGTTATGCTTGAACCAGATCCGGAACATAGACCTGATATATTTCAAGTGCATATTTTGCATTTAATT
TGCCAAAAGGATTGTCCAGTCTCCAACATCAATAATCTTCTATTCTTCAAGTCTTCTGAAACCGATG
ACTGCTAGTGAAGCAGCTGCTAGGAAAAGCCAAATAAAAGCCAGAATAACAGATACCATTGGACCAACAG
AAACCTCAATTGCACCAAGACAAAGACCAAGGCCAACTCTGCTACTACTGCCACTCCCAGTGTGCTGAC
CATTCAAAGTTCAGCAACACCTGTTAAAGTCTTGGTCTGCTGGTGAATTCGGTAACCATAGACCAAAAGGG
GCACTAAGACCTGGAAATGGCCCTGAAATTTTATTGGGTGAGGACCTCCTCAGCAGCCGCCACAGCAGC
ATAGAGTACTCCAGCAACTACAGCAGGGAGATTGGAGATTACAGCAACTCCATTTACAGCATCGTCATCC
TCACCAGCAGCAGCAGCAGCAGCAGCAACAGCAACAGCAGCAGCAGCAACAGCAACAGCAGCAGCAG
CAGCACCACCACCACCACCACCACCTACTTCAAGATGCTTATATGCAGCAGTATCAACATGCAACAC
AGCAGCAACAGATGCTTCAACAACAATTTTAAATGCATTGCGTATATCAACCACAACCTTCTGCATCACA
GTATCCTACAATGATGCCGAGTATCAGCAGGCTTTCTTCAACAGCAGATGCTAGCTCAACATCAGCCG
TCTCAACAACAGGCATCACCTGAATATCTTACCTCCCCTCAAGAGTTCTCACCAGCCTTAGTTTCTTACA
CTTCATCACTTCCAGCTCAGGTTGGAACCATAATGGACTCCTCCTATAGTGCCAATAGGTCAGTTGCTGA
TAAAGAGGCCATTGCAAATTTCACAAATCAGAAGAACATCAGCAATCCACCTGATATGTCAGGGTGGAAAT
CCTTTTGGAGAGGATAATTTCTTAAGTTAACAGAAGAGGAACTATTGGACAGAGAATTTGACCTCTAA
GATCAAGTAAGGGACACTTGAAGGCTTATTTTGTTCACAGTAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_017593 unedited CAAAAAAAAACGGCCCCACACACCATCCTCCCCCGCCGTGCTGCCATTTGTCAAAGTTTC ACTATAGGCGGCCGCGNAATCGGCACCAGGCGACCCCTCGCGGACGCCCGGCTGCGCGCC GGGCCGGGACTTGCCCTTGACGCTCCCTGCGCCCTCCAGCTCGCCGGCGGGACCATGA AGAAGTTCTCTCGGATGCCAAGTCGGAGGGCGGCAGCGCGCGGAGCGCGGGTGGCG GGGCTGGCGGGGCCGGGCGGGCCGGCTGCGGCTCCGGCGGCTCGTCCGTGGGGTCC GGGTGTTCGCGGTGCGCCGCCACCAGGTCACCTGGAAGAGTCGCTGGCCGAAGGTGGAT TCTCCACAGTTTTCTCTGTCGTACTCACGGTGAATCCGATGTGCATTGAAGCGAATGT ATGTCAATAACATGCCAGACCTCAATGTTTGTAAGGGAAATTACAATTATGAAAGAGC TATCTGGTCACAAAAATATTGTGGGCTATTTGGACTGTGCTGTTAATTCAATTAGTGATA ATGTATGGGAAGTCCTTATCTTAATGGAATATTGTCGAGCTGGACAGGTAGCGAATCAAA TGAATAAGAAGCTACAGACGGGTTTACAGAACCCGAAGTGTACAGATATTCTGTGATA CCTGTGAAGCTGTGCAAGGTTGCATCAGTGAAGACTCCAATAATTCACCGGGATCCTG AGAACATATTTTCCGAATGATGGCGGGAATGTACTTTGTGACTTTGGCAGGCCACT AAAAAATCTTAATCCTCAAAAAGAGGGAGTAATTGTAAGACTAGACAAAAAATTAAGGTT TCACCTCTGGCATACAAACCCCTGAAATGATCAACCTTTTTGGAGGGGAACCCCTCAC CACCCAGCCTGATT
Restriction Sites:	NotI-NotI
ACCN:	NM_017593
Insert Size:	3000 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:	<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_017593.3 , NP_060063.2
RefSeq Size:	2681 bp
RefSeq ORF:	1989 bp
Locus ID:	55589
UniProt ID:	Q9NSY1
Cytogenetics:	4q21.21
Domains:	pkinese, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: This gene is the human homolog of mouse BMP-2-inducible kinase. Bone morphogenic proteins (BMPs) play a key role in skeletal development and patterning. Expression of the mouse gene is increased during BMP-2 induced differentiation and the gene product is a putative serine/threonine protein kinase containing a nuclear localization signal. Therefore, the protein encoded by this human homolog is thought to be a protein kinase with a putative regulatory role in attenuating the program of osteoblast differentiation. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) differs in the 3' UTR and coding region compared to variant 1. The resulting isoform (b) is shorter and has a distinct C-terminus compared to isoform a.