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Product datasheet for SC125295

BMP2K (NM_198892) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BMP2K (NM_198892) Human Untagged Clone
Tag:	Tag Free
Symbol:	BMP2K
Synonyms:	BIKE; HRIHFB2017
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_198892, the custom clone sequence may differ by one or more nucleotides

ATGAAGAAGTTCTCTCGGATGCCCAAGTCGGAGGGCGGCAGCGGCGGCGGAGCGGCGGGTGGCGGGGCTG
GCGGGGCCGGGGCCGGGGCCGGCTGCGGCTCCGGCGGCTCGTCCGTGGGGGTCCGGGTGTTCGCGGTCGG
CCGCCACCAGGTCACCCTGGAAGAGTCGCTGGCCGAAGGTGGATTCTCCACAGTTTTCCTCGTGCGTACT
CACGGTGGAATCCGATGTGCATTGAAGCGAATGTATGTCAATAACATGCCAGACCTCAATGTTTGTAAAA
GGGAAATTACAATTATGAAAGAGCTATCTGGTCACAAAAATATTGTGGGCTATTTGGACTGTGCTGTTAA
TTCAATTAGTGATAATGTATGGGAAGTCCTTATCTTAATGGAATATTGTCGAGCTGGACAGGTAGTGAAT
CAAATGAATAAGAAGCTACAGACGGGTTTTACAGAACCAGAAGTGTTACAGATATTCTGTGATACCTGTG
AAGCTGTTGCAAGGTTGCATCAGTGTAAGACTCCAATAATTCACCGGGATCTGAAGGTAGAAAATATTTT
GTTGAATGATGGTGGGAACTATGTACTTTGTGACTTTGGCAGTGCCACTAATAAATTTCTTAATCCTCAA
AAAGATGGAGTTAATGTAGTAGAAGAAGAAATTAAAAAGTATACAACTCTGTCATACAGAGCCCCTGAAA
TGATCAACCTTTATGGAGGGAAACCCATCACCACCAAGGCTGATATCTGGGCACTGGGATGTCTACTCTA
TAAACTTTGTTTCTTCACTCTTCCTTTTGGTGAGAGTCAGGTTGCTATCTGTGATGGCAACTTCACCATC
CCAGACAATTCTCGTTACTCCCGTAACATACATTGCTTAATAAGGTTCATGCTTGAACCAGATCCGGAAC
ATAGACCTGATATATTTCAAGTGTCATATTTTGCATTTAAATTTGCCAAAAAGGATTGTCCAGTCTCCAA
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CAAAGGCCAACTCTGCTACTACTGCCACTCCCAGTGTGCTGACCATTCAAAGTTCAGCAACACCTGTTAA
AGTCCTTGCTCCTGGTGAATTCGGTAACCATAGACCAAAAGGGGCACTAAGACCTGGAAATGGCCCTGAA
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GCAACAGCAACAGCAGCAGCAGCAACAGCAACAGCAGCAGCAGCAGCAGCAGCAGCAGCACCACCACCAC
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TTCAACAACAATTTTTAATGCATTCGGTATATCAACCACAACCTTCTGCATCACAGTATCCTACAATGAT
GCCGCAGTATCAGCAGGCTTTCTTTCAACAGCAGATGCTAGCTCAACATCAGCCGTCTCAACAACAGGCA

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TCACCTGAATATCTTACCTCCCCTCAAGAGTTCTCACCAGCCTTAGTTTCCTACACTTCATCACTTCCAG
CTCAGGTTGGAACCATAATGGACTCCTCCTATAGTGCCAATAGGTCAGTTGCTGATAAAGAGGCCATTGC
AAATTTCACAAATCAGAAGAACATCAGCAATCCACCTGATATGTCAGGGTGGAATCCTTTTGGAGAGGAT
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GCCCTTTGATGAAATAACGGGGAGCCAGCAGCAAAAAGTCAAACAGCGCAGCTTACAGAAACTGTCCTCT
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CAAAGAAGACTTTGAAGCCTACCTATCGCACTCCAGAGAGGGCTCGCAGGCACAAAAAAGTGGGCCGCCG
AGACTCTCAAAGTAGCAATGAATTTTTAACCATCTCAGACTCCAAGGAGAACATTAGTGTTGCACTGACT
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TCCATTCTCCAGACCTGTCATGGCACCCTCCACATCAGGGCCTGAGCGACATCCGTGCTGATCACAATAC
TGTCCTGCCAGGGCGGCCAAGACAAAATTCACTACATGGGTCATTCCATAGTGCAGATGTATTGAAAATG
GATGATTTTGGTGCCGTGCCCTTTACAGAACTTGTGGTGCAAAGCATCACTCCACATCAGTCCCAACAGT
CCCAACCAGTCGAATTAGACCCATTTGGTGCTGCTCCATTTCCTTCTAAACAGTAG

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_198892 unedited
NGGTAACGTTCCAATTTGTATACGACTCATATAGGGCGGCCGCGAATTCGCACGAGGCGG
CGGCGTCGCCCCTGGATTCGGACCCGCCCCCTCGCGCCCCGCCCCGTCCCCGCCCTCCCC
ACCGCCCTCTGCGGGAGCCGGGCAGCTGCAGCGGAGCCGCGGAGCGGGCGGCGGGGCCCA
GGCTGTGCGCTTGGGGAGCGCGGAATGTGAGGCTTGGCGGGCCGCAGCACGCTCGGACGG
GCCAGGGGCGGCGACCCCTCGCGGACGCCCGGCTGCGCGCCGGGCCGGGGACTTGCCCTT
GCACGCTCCCTGCGCCCTCCAGCTCGCCGGCGGGACCATGAAGAAGTTCTCTCGGATGCC
CAAGTCGGAGGGCGGCAGCGGCGGCGGAGCGGCGGGTGGCGGGGCTGGCGGGGCCGGGGC
CGGGGCCGGCTGCGGCTCCGGCGGCTCGTCCGTGGGGGTCCGGGTGTTCGCGGTCGGCCG
CCACCAGGTCACCCTGGAAGAGTCGCTGGCCGAAGGTGGATTCTCCACAGTTTTCCTCGT
GCGTACTCACGGTGGAATCCGATGTGCATTGAAGCGAATGTATGTCAATAACATGCCAGA
CCTCAATGTTTGTAAAAGGGAAATTACAATTATGAAAGAGCTATCTGGTCACAAAAATAT
TGTGGGCTATTTGGACTGTGCTGTTAATTCAATTAGTGATAATGTATGGGGAAGTCCTTA
TCTTAATGGAATATTGTCAAGCTGGACAAGGTGTGAATCAAATGGATAAGAAGCCTCGGA
CGGGTTTTACAGAACCAGAAGTGTTACAGATATTCTGTGATACCTGTGGAGCTGTTGCAG
GTTGCATCAGTGTAAGACTCCATAATTCACCGGGATCTGAAGGTAGAAAT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_198892 unedited
GCGTGGCACTTCCGGGCCAGGAGAGGCACTGGGGAGGGGTCACAGGGATGCCACCCGGGA
TCTGTTCAGGAAACAGCTATGACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTAAAGAATATGCAATCCATTTGGGATTTATTGCATTTAAAGAAA
ACAGATTAAAACAGGTATGATAAATACAGTAAGAAAATAACTTTAAATTTCAAACAAAAC
AGTGAATCAGGGACAGAATTCAGTCAAAAAGAATAAGCAGTGTAAAGGCAATAANAGTTA
TAAAATCAGTTAGTGCTTATTNATATGGAGGGGAAAAGGGGTGGGAGGGGGAGACTGAGT
CTATCTCATAATTGTTTCCCAGCTNTNTTTNNAGGCTAGAGTTNNCTTTAGCAANTATGT
TTTTGTNNCCNNNGTTGAAAATACCAATAAAAAGATGGTAAAATTTTGCTTTTATTTTAA
AAGGTTTAAAAAAGTTATTTTTGCTTAATGGTACATAAAAGGCTTCAGAAAATTCAAGTT
TAACAAAAAAATGGAAGTGTAATCAAAGAAATGCACTTAAAGCTGTTTGCCNCAATTAAAA
AGTAGCTCTATCAGCCTCTTTANATGACTTTTCATCCAAAAGAGCATAGTCTAAAACAAT
TCTTCAAAATGCGTAAAATTTAA

Restriction Sites: Please inquire

ACCN: NM_198892

Insert Size: 9000 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_198892.1, NP_942595.1

RefSeq Size: 3859 bp

RefSeq ORF: 3486 bp

Locus ID: 55589

UniProt ID: Q9NSY1

Cytogenetics: 4q21.21

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 (1) represents the longer transcript and encodes the longer isoform (a).