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Product datasheet for SC100040

RANBP3L (NM_145000) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RANBP3L (NM_145000) Human Untagged Clone
Tag:	Tag Free
Symbol:	RANBP3L
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF within SC100040 sequence for NM_145000 edited (data generated by NextGen Sequencing)

ATGACTACCATACCAAGAAAAGGCAGCAGCCACCTGCCTGGCAGTTTGCACACCTGTAAA
CTGAAGCTGCAGGAGGACCGGCGACAGCAAGAAAAATCTGTCATTGCTCAACCCATATTT
GTTTTTGAAAAGGGAGAACAAACTTTTAAGAGACCTGCAGAAGACACCCTGTATGAAGCA
GCAGAACCAGAATGTAATGGTTTTCCAAGAAAGCGTGTACGGTCTTCATCTTTTACTTTT
CATATTACAGATTCTCAGTCCCAGGGAGTGAGGAAAAACAATGTTTTTATGACATCAGCT
CTTGTGCAAAGTAGTGTTGATATAAAGAGTGCTGAACAAGGTCCTGTGAAACATTCTAAA
CATGTTATTAGACCTGCTATTTTGCAGCTACCTCAAGCTCGAAGTTGTGCAAAAGTAAGA
AAAACATTTGGACACAAGGCACTGGAATCTTGCAAGACTAAAGAAAAAACAAATAATAAG
ATTTCTGAGGGAAATTCCTATTTGTTAAGTGAAAATTTATCAAGGGCTAGAATTTCAGTC
CAGCTGTCTACTAACCAGGACTTTTTAGGTGCAACATCAGTAGGATGTCAACCAAATGAA
GATAAATGTTCTTTTAAAAGCTGCAGTTCCAATTTTGTTTTTGGAGAAAACATGGTAGAA
AGAGTTTTGGGTACTCAAAAACTCACCCAGCCTCAACTTGAAAATGATTCATATGCCAAG
GAAAAACCATTCAAATCCATTCCGAAATTTCCTGTCAACTTTTTAAGTTCAAGAACAGAC
TCTATTAAAAATACTTCCCTAATTGAATCAGCTGCTGCATTCTCTTCCCAACCATCACGA
AAATGCTTGCTGGAGAAAATTGATGTTATAACAGGGGAGGAAACAGAACATAATGTGTTA
AAGATAAACTGCAAGCTTTTCATATTCAACAAAACAACACAATCCTGGATTGAAAGGGGC
AGAGGAACGTTGAGACTGAATGACACAGCAAGCACTGACTGTGGAACATTACAGTCAAGA
CTAATTATGCGCAATCAAGGCAGTCTAAGGCTGATCCTCAACAGCAAACTCTGGGCCCAA
ATGAAGATTCAAAGAGCAAACCACAAAAATGTACGAATAACAGCTACTGATTTAGAAGAC
TATAGCATCAAAATATTTTTAATTCAGGCCAGTGCCCAAGATACAGCATATTTGTATGCA
GCAATACATCATCGTCTTGTTGCACTTCAAAGCTTCAATAAGCAGAGAGATGTCAATCAA
GCTGAAAGCCTGTCAGAAACAGCCCAACAATTGAACTGCGAAAGCTGTGATGAGAATGAG
GATGATTTCATCCAAGTCACTAAAAATGGATCAGATCCTTCTAGTTGGACTCACAGACAG
TCGGTTGCCTGTTCATGA

Clone variation with respect to NM_145000.3
209 c=>g

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_145000 unedited
GATTTGTATACGACTCCTATAGGGCGGCCGCGATTCGGCACGAGGACTCAGATCAGGCTT
AGAAATCACTTGACTTAACTCAGCAGCACTTTTTCTTTTCTTTGTGTCTGTATTATTTTA
GCAGCCTTCTCTAAATACTGGAGGCATTGGATTTCATGTCGCCAAAAGGAATTTAAAAAT
GACAAAAGTGTAATCTGTTAGAAATAGTTAATTTGTAGAATTTTACTCTATAAGGAGGTT
TAGTTTCAATTTGTTTTGAAATGAAGGAATTAAGTTGTGTTTTTAACCAAATGAATTGGC
ATCTTTATATTTAGGAGAAGTAACATTGGTGATTATTTATTTCAAGAATCATGACTGGAA
AAAGCTTGGAAGTTTAGTAGAGGAGTATATGTTGTACATGCAAAGACAAGATCTGCATGA
ATCTATGTATTTCTGGGTGTCTGGTGAAGGCCACTTTAGGTGACTGGCCAGAGAAGGAGG
TGCCCTAGTGATCCTTGAGTCACAGCCATACTGCTAGGACCATGACTACCATACCAAGAA
AAGGCAGCAGCCACCTGCCTGGCAGTTTGCACACCTGTAAACTGAAGCTGCAGGAGGACC
GGCGACAGCAAGAAAAATCTGTCATTGCTCAACCCATATTTGTTTTTGAAAAGGGAGAAC
AAACTTTTAAGAGACCTGCAGAAGACACCCTGTATGAAGCAGCAGAACCAGAAATGTATG
GTTTTCCAAGAAAGCGTGTACGGNCTTCATCTTTTACTTTTCATATTACAGATTCTCAGT
CCCAGGGAGTGAGGAAAAACAATGTTTTTATGACATCAGCTCTTGTGCAAAGTAGTGTTG
AATAAAAGAGTGCTGAACAGGGTCCTGTGAAACATTNNCTAACATGTATTAGACCTGCTA
TNTTGCAGCTACCTAAACCTCCGAANTGGTGCAAAAGTAGAAAAACATTNGNACACAGGG
CACTGGAATCTTGCAGACTAAAGAAAACAATAATAA

3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_145000 unedited
GGTTTACTATGNACGCGGCCGCAATCTATGATCGGTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTAATGGATTATATTTTATTTATTCATTTAACAACTATTGGATGCTGACCATGAG
TCAAACATTGACAAGATGCAACAGATACAAGTCCAAGAGCAGATGCTCTTTTTAAAGGAA
TTCATACCATGAATATATAAGCTTATCATATTAGGAAATCCAAAAGCTAAATTAAAATAT
TTCCCAGAAGATAAATAGGATTTCGTGAAATGTTATCATGCCATTATACTATTTTTCAGA
GAAATGACTCTGGAAATTTAGTAAAATATTTGTTTTGTGGTCAAGTATGACTGAAAAAAA
TAAACATTTTGTTAGGTATTTATCAAATCTAGCAATTTATAATTCTAAGTATTATATCCA
TCAATGTGATGAAGAGTCCAAATTAGTTATAAAATCCTATTCTAAATAAACTTCTTCAAA
AATGATAAATTTTGAACTTCTGAAGTCCATTTTTTTAAATTCTGTCAGTTTCTGCACAAT
AATCAAAATGTAAAATGTAAAACATAAAAATGTTAATTGCAACAAATTACATTTCTTAAA
CTTTTCTATAAAAACTCTTCAAGGAATGAATAGAATCTTCTCATTAGTTAGGGTGGTCTA
GTATTTTCAGTAGGGTGACCCCTCTTTTTGTAGATGTCATGTTTATAGTAAGTAGTATTC
ATGAAACAGCAACCGACTGGCTGTGAGTCCAACTAGAAAGATCTGATTCATTTTTAGTGA
CTTGGTAGAAATCATCCTCATTCTAACAAAACTTTCGCAATTCAATTGGTGGGGCTGGTT
CTGAAAAGCTTTTAACCTGAATGAAAACCCTCTGCCTATTGAAGCCTTGGAAGGCAACAA
A
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Restriction Sites: NotI-NotI

ACCN: NM_145000

Insert Size: 2600 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_145000.2, NP_659437.2

RefSeq Size: 2570 bp

RefSeq ORF: 1398 bp

Locus ID: 202151

UniProt ID: Q86VV4

Cytogenetics: 5p13.2

Gene Summary: Nuclear export factor for BMP-specific SMAD1/5/8 that plays a critical role in terminating BMP signaling and regulating mesenchymal stem cell differentiation by blocking osteoblast differentiation to promote myogenic differention. Directly recognizes dephosphorylated SMAD1/5/8 and mediates their nuclear export in a Ran-dependent manner.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) lacks an in-frame exon in the coding region, compared to variant 1. The encoded isoform (2) is shorter compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.