

Product datasheet for **MR207865**

Ranbp3l (NM_198024) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ranbp3l (NM_198024) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ranbp3l
Synonyms:	C130037N17Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207865 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCTACAACACAAAGGAAAGACGACAGCCACCTGTTACCAGTTCGTGCACGGCTCAGCTGCAGGTGC
 AGGAGGATCGGCAACAGCAAGAAAAATATGTCATTGCTCAGCCAATATTTGTTTTGAGAAAGGAGAACA
 CAATTTTAAGAGACCTGCAGAAGACAGCCTGGAAGAAACGGCAGAGCCTGAATCACTGTTTTCTTGAGA
 AAGCGTGAAGGTCTTCATCTGTTACGTTCTACTACAGATCCTCAGTCTCAAGGAGTGGCAACTTTGT
 CTCAAACGCGTCTGAGGTCTCGTATTCACTGATGTCCCGACCTCCCTCCATGCAGGCCAGTGAGGAA
 AAACAATGTTTTATGACATCACGTCTGCTGCAAAGGAGTGATGACATGAACAACGTAGAGCAAGGACCC
 CCCATGAGATCTTCTGAACAGGTTCTAAGACCCGCTGTTCTGCAGCCGCTCAAACCTCAGAGTTGCAGA
 AAGCAGGCACAACATTTGGGCCCGGTGCATTGAAATCCTACAAAATAAGGAAAAGGCCAGCAGGAT
 TTCTGAAGTTGGAAGTTCTCTAGTTTACTAAGTGAAAATTTACCAAATGCCAGAAGCTCAATCCAGCTG
 TCTACTGATCCATGCATCTCAGAGGCACCATCGGGATGCCAACCAAAGGAAGATAAGTGTCTTTTACAA
 GCTGCAGTTCTGACTTCGTTTTTTGGAGAAAACATGGTAGAAAAGAGTTTTGGGCACTCAAAAACCTACTCA
 GCCTCCACTTCAAATCTTTTATATGCCAAGGAAAAACATTCAAATCTGTTCTGAAATTCCTAATGCT
 GTTTCAAATTCAGACTCTATTGAAAACATATCCCTAGTCGAATCAGCTGCTGTTTTCTCCAAACCAT
 CAAAAAATGCTTGCTTGAGAAGATTGATGTTATAACAGGAGAAGAACTGAACATAATGTGTTAAAGAT
 CAACTGCAAGATCTTTGATTTCAACAAAGCCACAGAATCCTGGAGTGAAGAGGCCAAGGGATTTTGCGA
 CTGAACGACACGGCCGGCCGAGAGTGTGGAACACTGCAGTCAAGACTAATCATGCGCAACCAAGGCAGT
 TGAGGCTGGTCTCAACAGCAGACTCTGGGCTCAGATGAAGATTCAAAGAGCAAGTCAGAAAAATTTGCG
 AATAACTGCGACTGATTTAGAAGACGATGGTATAAAAAATTTTTTAATTCAGGCTAGTGCCAAAGATACA
 GGCTTTCTGTATGCAGCAATCCACCACGCTCTGGTCGCGCTTCGAAGCCTCGCTAAGCAGGGTGACGGTG
 GTCCAGCCGAAAGCCAGTCCGATACAGCCCTCCCTCAGCTCAATGGCGAGAGCTGTGACGAGGATGAGGA
 TGAGATCGCACAAAGTCACTAAAAATGGATCAGATCCTTCAAGGTGGAGCCACAGACAGTCAATTGTCTGT
 TCA

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207865 protein sequence
 Red=Cloning site Green=Tags(s)

MSTTQRKDDSHLFTSSCTRQLQVQEDRQQEKYVIAQPIFVFEKGEHNFKRPAEDSLEETAPEFTGFLR
 KRVRSSSVTLHTTDPQSQGVATLSQTRLRSSSFTDVPTFPPCRPVRKNNVFMTRSLLQRSDDMNNVEQGP
 PMRSSEQVLRPAVLQPSQTQSCQKAGTTFGPGALKSYKKEAEHEISEVSSSSLLSENLPNARSSIQ
 STDPCISEAPSGCQPKEDKCSFTSCSSDFVFGENMVERVLGTQKLTQPPLQNL SYAKEKTFKSVLKFPNA
 VNSDSIENISLVESAAAFSSKPSQKCLLEKIDVITGEEETHNVLKINCKIFVFNKATESWSERGGILR
 LNDTAGRECGTLQSRIMRNQGSRLRLVNSRLWAQMKIQRASQKNLRITATDLEDDGIKIFLIQASAKDT
 GFLYAAIHHRLVALRSLAKQGDGPAESQSDTALPQLNGESDDEDEDEIAQVTKNGSDPSRWSHRQSIVC
 S

SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_198024

ORF Size: 1476 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_198024.2](#)

RefSeq Size: 4298 bp

RefSeq ORF: 1476 bp

Locus ID: 223332

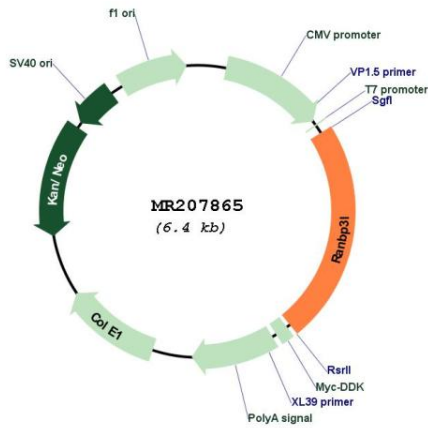
UniProt ID: [Q6PDH4](#)

Cytogenetics: 15 A1

MW: 54.5 kDa

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 differentiation. Directly recognizes dephosphorylated SMAD1/5/8 and mediates their nuclear export in a Ran-dependent manner.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207865