

Product datasheet for **MR223278**

Ranbp9 (NM_019930) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ranbp9 (NM_019930) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ranbp9
Synonyms:	IBAP-1; Ibap1; RanBPM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR223278 representing NM_019930
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGGGCGAGCCGCCACCGCCGCCAACAGCAGCGCCGCCGCCGCCGCCGCCCGCGGGGCC
 CGGGCTCCGGAGTCGCCCTGCCCGCGCCGCCGCCAGCGCCGCTCTCCCGCGCCGCTCGCCCGG
 TGGAGGCTTGGGGCCGAGCGGCCCGCCTGCTGCTCCACCCGCCGCCGCCGCCGCCCTCCCCGGCC
 ACCGCCGCCGCCGCCGCCCGCCTCGCGCGCCGCCGCCACCGCCGCCGCCGCCCGCCGCTGGCGGTGGGC
 CCGGCCCGCGCAGGCGTCCCGGTCGCGGCCGCGCCGCCACCGCCGCCGCCGCCGCCGCTGGCGGTGGGC
 CGGCGACTCGGCCCTAACGAGCAGGAGAAGGAGCTGCAGAGGCGGTGAAGCGCTCTACCCGGCTGTG
 GATGAGCAGGAGCGCCGCTGCCCGGTCCTGGAGCCGAAGGACAAGTTCAGCTACATCGGCCTCTCGC
 AGAACAACTGCGGTCGACTACAAAGTTCATGGTAAACCCCCAAAGATGCAGCATCTGTCGAGCCAC
 GCATCAAATACCAGCGCCCTGTGGGATTTATTATTTTGAAGTAAAATTGTCAGTAAGGGAAGAGATGGC
 TACATGGGAATGGTCTTTCTGCTCAAGGTGTGAACATGAATAGACTACCAAGTTGGGATAAACATTCAT
 ATGTTTACCATGGGATGATGGACATTCATTTGTTCTTCTGAACTGGACAACCGTATGGACCACTTT
 TACAACCTGGTGTGTCATTGGCTGTTGTGTTAATCTTATCAACAATACCTGCTTTTACACGAAGAATGGA
 CATAGTTTAGGTATTGCTTTACCGACTTACCGCAAATTTGTATCCTACTGTGGGGCTTACAGACCCAG
 GAGAAGTGGTGTGACCAACTTTGGGCAACATCTTTTGTGTTTGTATATAGAAGACTACATGCGAGAATG
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 ATCCAAAAAATGGTTTCATCTTATTTAGTCCACCATGGTACTGTGCCACAGCAGAGGCCCTTGGCAGAT
 CTACAGCCAGACTGTTCTAGAAGAATTAGCTTCCATTAAGAATAGACAAGAATTGAGAAGTTGGTGTT
 AGCAGGACGAATGGGAGAAGCCATTGAAACAACAACAGTTTATACCCAAGTTTACTTGAAGAAATCCC
 AATCTCCTTTTACATTAATAAGTACGTCAGTTTATAGAAATGGTGAATGGTACAGACAGTGAAGTGGGT
 GTTGGGAGGCCGAAGTCCAAAATCTCAAGACAGTTATCCCGTACGCTCGACCCTTTAGTAGTCCAAG
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 GGTGTTGAAAGTTGTAGCAATGGTGAATATCAAATAAAGCACACCAATCATATTGCCATAGTAAACACC
 AGCTATCCAGCTTACTGTACCGAGCTAACAGTCTCAATGTATCAAGTCCAGCAAGTTAATAACTT
 TACCAGTAATGATGTAGACATGGAACAGATCACTACTCCAATGGAGTTGGAGAACTTCATCCAATGGT
 TTCTTAATGGTACTCTAACATGACCACGAAATGGAAGATTGTGACCCGAAATGGAAGTTGACTGCA
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 GCTACAAGCCATGAGTGAGCAGCTGAGGAGAGAATGTGGCAAGAACACAGCAAAATAGAAATGCTGAAG
 GACGATTAGCTTACTAGCATATTCGGATCTTGAATAGTCCAGTTGGAAATCAGCTTGACCCAATTC
 AGAGAGAACCTGTGTGCTCAGCTTTAACAGTGAATATTAGAAAACCAAAATCTGCCAAAGCAACTCC
 ACTTGCCCTAGCCATGGGACAGGCCACACAGTGTCTAGGCCTGATGGCTCGGTACAGGAGTTGGGTCCTGT
 GCATTTGCCACAGTGAAGACTACCTACAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR223278 representing NM_019930
 Red=Cloning site Green=Tags(s)

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MSGQPPPPPPQQPPPPPPAAGAPGSGVALPAAAAASAGSSPAGSPGGGLGAAAAALLHPPPPPPPPPA
TAAPPPASAAAPATAPPGLAVGPGPAAGVVPVGLAAGSSAAAPFPHGDSALNEQEKELQRRLKRLYPVAV
DEQETPLPRSWSPKDKFSYIGLSQNNLRVHYKGHGKTPKDAASVRATHPIPAACGIYYFEVKIVSKGRDG
YMGIGLSAQGVNMNRLPGWDKHSYGYHGDDGHSCSSSGTGQPYGPTFTTGDVIGCCVNLINNTCFYTKNG
HSLGIAFTDLPPNLYPTVGLQTPGEVVDANFGQHPFVFDIEDYMRWRTKIQAQIDRFPIGDREGEWQTM
IQKMVSSYLVHHGYCATAEAFARSTDQTVLEELASIKNRQRIQKLVLAGRMGEAIETTQQLYPSLLERNP
NLLFTLKVRFIEMVNGTDSEVRCLGGRSPKSQDSYPVSPRPFSSPSMSPSHGMSIHSLAPGKSSTAHS
GFESCNGVINSKAHQSYCHSKHQLSSLTPELNSLNVRSQQVNNFTSNDVDMETDHYNGVGETSSNG
FLNGSSKHDHEMEDCDTEMEVDCSQLRRQLCGGSQAAIERMIHFGRELQAMSEQLRRECGKNTANKKMLK
DAFSLLAYSDPWNQVGNQLDPIQREPVCALNSAILETHNLPKQPPLALAMGQATQCLGLMARGVGVSC
AFATVEDYLH
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9037_e07.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_019930

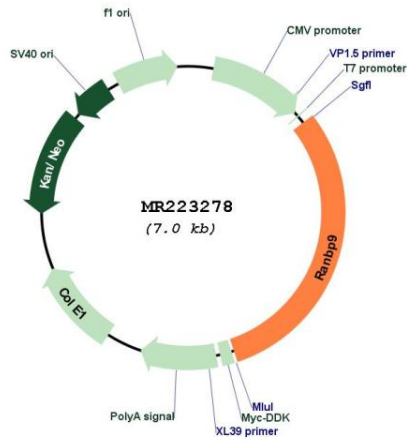
ORF Size: 2130 bp

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:	<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:	<u>NM_019930.2</u> , <u>NP_064314.2</u>
RefSeq Size:	3064 bp
RefSeq ORF:	2133 bp
Locus ID:	56705
UniProt ID:	<u>P69566</u>
Cytogenetics:	13 A4
MW:	76.2 kDa
Gene Summary:	May act as scaffolding protein, and as adapter protein to couple membrane receptors to intracellular signaling pathways. Acts as a mediator of cell spreading and actin cytoskeleton rearrangement. Core component of the CTLH E3 ubiquitin-protein ligase complex that selectively accepts ubiquitin from UBE2H and mediates ubiquitination and subsequent proteasomal degradation of the transcription factor HBP1. May be involved in signaling of ITGB2/LFA-1 and other integrins. Enhances HGF-MET signaling by recruiting Sos and activating the Ras pathway. Enhances dihydrotestosterone-induced transactivation activity of AR, as well as dexamethasone-induced transactivation activity of NR3C1, but not affect estrogen-induced transactivation. Stabilizes TP73 isoform Alpha, probably by inhibiting its ubiquitination, and increases its proapoptotic activity. Inhibits the kinase activity of DYRK1A and DYRK1B. Inhibits FMR1 binding to RNA.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223278