

Product datasheet for **MR208076**

Ranbp10 (BC024698) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ranbp10 (BC024698) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ranbp10
Synonyms:	4432417N03Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208076 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGAATTGGACTCTCAGCGCAAGCGCTTAACATGAACAGACTGCCTGGTTGGGACAAGCATTCTATG
 GTTACCATGGCGATGATGGGCATTCTTCTGCTCTCTGGGACAGGCCAGCCTTATGGTCCACATTTCAC
 CACAGGGGATGTGATCGGCTGTTGTGTCAACCTCATCAATGGCACCTGCTTCTACACCAAGAATGGCCAC
 AGCCTTGGTATCGCCTTACAGATCTCCCGGCCAACCTCTACCCCACTGTCGGCTACAGACACCTGGGG
 AGATTGTGGATGCCAACTTTGGGACAGCAGCCTTCTGTTTCGACATTGAGGACTATATGCGGGAGTGGCG
 TGCCAAAGTCCAGGGCACTGTGCACGGCTTCCATAAGTGCCCGGCTTGGCGAGTGGCAGGCGGTGCTG
 CAGAACATGGTCTCGTCTACCTGGTGCATCATGGGTATTGTTCCACAGCCACAGCTTTTGGCCGAATGA
 CTGAAACCCCGATTAGGAAGAGCAGGCATCCATAAAGAACAGACAAAAATCCAGAAGCTGGTGTGGA
 AGGCCGGTGGGTGAAGCCATTGAGACAACCCAGCGCTTCTACCTGGGCTGCTGGAACATAATCCCAAC
 CTGCTCTTCATGCTCAAGTGTGCACAGTTCGTGGAGATGGTGAACGGCACTGACAGTGGGTCCCGAGCC
 TGAGTTCCCGAAGCCCAAGTCCAGGACAGCTACCCTGGCTCCCCAGCCTCAGCCCCGACATGGCCC
 CAGTAGTTCATATACACAACACAGGAGCAGACAGTCCCAGCTGCAGCAATGGCGTGCATCCACCAAG
 AACAAACAGAACCACAGTAAATACCCCGCACCCAGCTCCTCCTCCTCGTCTCATCTCCTGCTCCTCCT
 CTTCCCGTCTCCGTCATTAAGTCCGAGTCCAACCTCAACAGACTCTACCAAGTCCCAGCCCCACAGCAG
 TACCAGTAACCAGGAGACCAGTATAGCGAGATGGAGATGGAGGCAGAGCACTATCCCAATGGTGTGCTG
 GAAAGCGTCTCCACGCGCATCGTCAATGGGCGCTATAAGCATGACGACCTGCAGACAGATGATCATCCAGCA
 TGGACGACGGGCATCCACGGAGCAGCTCTCGGGGGCAACCAGGCTGCCACAGAAAGATCATCTGTT
 TGCCCGAGAGCTGACGGCATTGAGCGAGCAGCTGGGCCGGGAGTACGGCAAGAAGTGGCCACACGGAG
 ATGCTGCAGGATGCCTTTAGCCTACTAGCATACTCAGACCCTGGAGCTGCCAGTAGGTATCAGCTTG
 ATCCCATCCAGAGAGAGCCCGTGTGTGCTGCTCTCAACAGCGCCATTTTAGAGTCTCAGAACCTGCCAAA
 GCAGCCTCCTTTGATGCTCGCCCTGGGCCAGGCATCTGAATGTCTACGGCTCATGGCCCGAGCAGGCCTG
 GGATCTTGCTCCTTTGCCAGAGTCGATGACTACTTGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208076 protein sequence
 Red=Cloning site Green=Tags(s)

MGIGLSAQGVNMRNRLPGWDKHSYGYHGGDGHFSFSSGTGQPYGPTFTTGDVIGCCVNLINGTCFYTKNGH
 SLGIAFTDLPANLYPTVGLQTPGEIVDANFGQPFLFDIEDYMREWRKAVQGTVHGFPI SARLGEWQAVL
 QNMVSSYL VHHGYCSTATAFARMTETPIQEEQASIKNRQKIQLVLEGRVGEAIE TTRFYPLLEHNP
 LLFMLKCRQFVEMVNGTDSSEVRSLSRSPKSDSYGSPSLSPRHGSPSSSHIHNTGADSPSCSNGVASTK
 NKQNHSKYPAPSSSSSSSSSSSSSSSVNYSESNSTDSTKSQPHSSTSNQETSDSEMEEAEHYPNGVL
 ESVSTRIVNGAYKHDDLQTDSSMDDGHPRRQLCGGNQAATERIILFGRELQALSEQLGREYGNLAHTE
 MLQDAFSL LAYS DPWSCPVGHLDP IQREPVCAALNSAILESQLPKQPPLMLALGQASECLRLMARAGL
 GSCSFARVDDYLH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: BC024698

ORF Size: 1509 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC024698](#), [AAH24698](#)

RefSeq Size: 5169 bp

RefSeq ORF: 1511 bp

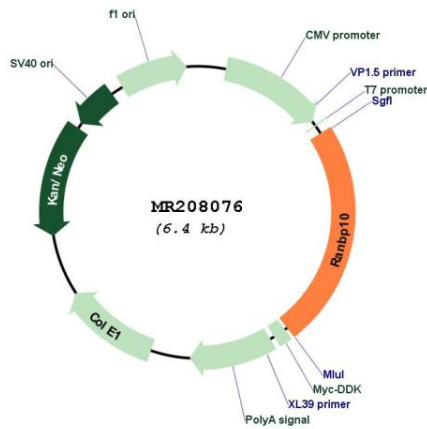
Locus ID: 74334

Cytogenetics: 8 D3

MW: 54.7 kDa

Gene Summary: May act as an adapter protein to couple membrane receptors to intracellular signaling pathways (Probable). 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 (By similarity). Enhances dihydrotestosterone-induced transactivation activity of AR, as well as dexamethasone-induced transactivation activity of NR3C1, but does not affect estrogen-induced transactivation (By similarity). Acts as a guanine nucleotide exchange factor (GEF) for RAN GTPase (PubMed:18347012). May play an essential role in hemostasis and in maintaining microtubule dynamics with respect to both platelet shape and function (PubMed:19801445). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208076