

## Product datasheet for **MG208076**

### Ranbp10 (BC024698) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ranbp10 (BC024698) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ranbp10
Synonyms:	4432417N03Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208076 representing BC024698  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGAATTGGACTCTCAGCGCAAGGCGTTAATGAACAGACTGCCTGGTTGGGACAAGCATTCTATG  
 GTTACCATGGCGATGATGGGCATTCTTCTGCTCTCTGGGACAGGCCAGCCTTATGGTCCACATTTCAC  
 CACAGGGGATGTGATCGGCTGTTGTGTCAACCTCATCAATGGCACCTGTTCTACACCAAGAATGGCCAC  
 AGCCTTGGTATCGCCTTACAGATCTCCCGGCCAACCTCTACCCCACTGTCGGCTACAGACACCTGGGG  
 AGATTGTGGATGCCAACTTTGGGACAGCCCTTCTGTTGACATTGAGGACTATATGCGGGAGTGGCG  
 TGCCAAAGTCCAGGGCACTGTGCACGGCTTCCATAAGTGCCCGGCTTGGCGAGTGGCAGGCGGTGCTG  
 CAGAACATGGTCTCGTCTTACCTGGTGCATCATGGGTATTGTTCCACAGCCACAGCTTTTGGCCGAATGA  
 CTGAAACCCCGATTCCAGGAAGAGCAGGCATCCATAAAGAACAGACAAAAATCCAGAAGCTGGTGTGGA  
 AGGCCGGTGGGTGAAGCCATTGAGACAACCCAGCGCTTCTACCTGGGCTGCTGGAACATAATCCCAAC  
 CTGCTCTTCATGCTCAAGTGTGCACAGTTCGTGGAGATGGTGAACGGCACTGACAGTGAGGTCCGCAGCC  
 TGAGTTCCCGAAGCCCCAAGTCCAGGACAGCTACCCTGGCTCCCCAGCCTCAGCCCCGACATGGCCC  
 CAGTAGTTCATATACACAACACAGGAGCAGACAGTCCCAGCTGCAGCAATGGCGTGCATCCACCAAG  
 AACAAACAGAACCACAGTAAATACCCCGCACCCAGCTCCTCCTCCTCGTCTCATCTCCTGCTCCTCT  
 CTTCCCGTCTCCGCAATTACTCCGAGTCCAACCAAGTCTACCAAGTCCAGCCCCACAGCAG  
 TACCAGTAACCAGGAGACCAGTATAGCGAGATGGAGATGGAGGCAGAGCACTATCCCAATGGTGTGCTG  
 GAAAGCGTCTCCACGCGCATCGTCAATGGGGCTATAAGCATGACGACCTGCAGACAGATGATCCAGCA  
 TGGACGACGGGCATCCACGGAGCAGCTCTCGGGGGCAACCAGGCTGCCACAGAAAGGATCATCTGTGTT  
 TGGCCGAGAGCTGCAGGCATTGAGCGAGCAGCTGGGCCGGGAGTACGGCAAGAAGTGGCCACACGGAG  
 ATGCTGCAGGATGCCTTTAGCCTACTAGCATACTCAGACCCTGGAGCTGCCAGTAGGTATCAGCTTG  
 ATCCCATCCAGAGAGAGCCCGTGTGTGCTGCTCTCAACAGCGCCATTTTAGAGTCTCAGAACCTGCCAAA  
 GCAGCCTCCTTTGATGCTCGCCCTGGGCCAGGCATCTGAATGTCTACGGCTCATGGCCGAGCAGGCCTG  
 GGATCTTGCTCCTTTGCCAGAGTCGATGACTACTTGAC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG208076 representing BC024698  
 Red=Cloning site Green=Tags(s)

MGIGLSAQGVNMNRLPGWDKHSYGYHGDGHSFCSSGTGQPYGPTFTTGDVIGCCVNLINGTCFYTKNGH  
 SLGIAFTDLPANLYPTVGLQTPGEIVDANFGQPFLFDIEDYMREWRKAVQGTVHGFPISARLGEWQAVL  
 QNMVSSYLVHHGYCSTATAFARMTETPIQEEQASIKNRQKIQKLVLEGRVGEAIETTQRFYPGLLEHNP  
 LLLFMLKCRQFVEMVNGTDEVRSLSSRSPKSQDSYPGSPSLSPRHGPPSSSHIHNTGADSPSCSNGVASTK  
 NKQNHKYPAPSSSSSSSSSSSSSSPSSVNYSESNSTDSTKSQPHSSTSNQETSSEMEEAEHYPNGVL  
 ESVSTRIVNGAYKHDDLQDESSMDDGHPRRQLCGGNQAATERIILFGRELQALSEQLGREYGNLAHTE  
 MLQDAFSLLAYSDPWSCPVGHLDPIDQREPVCAALNSAILESQNLPKQPPLMLALQQAASECLRLMARAGL  
 GSCSFARVDDYLH

**TRTRPLE** - GFP Tag - V

**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

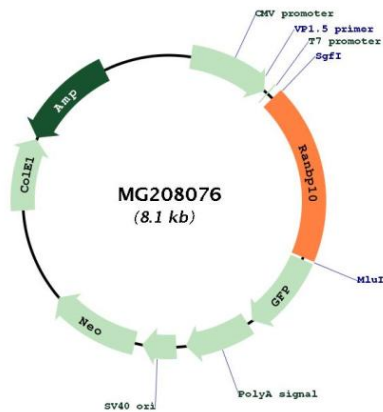
**RefSeq ORF:** 1511 bp

**Locus ID:** 74334

**Cytogenetics:** 8 D3

**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 MG208076