

Product datasheet for **MR206828**

Rab3ip (NM_001003950) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rab3ip (NM_001003950) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rab3ip
Synonyms:	B230311A06; Gtpat12; Rabin3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR206828 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTAACGACCCCTTGAAGGCTTCCATGAAGTGAACCTTGCTTCGCCTACTTCTCCAGACCTTCTTG
 GTGTGTGTGACCCGGAACCCAAGAGCAGACTACCTCCCCGAGCGTCATCTACCGCCACACCCCTCCAC
 GTTATGCGCTGCCCTCTCCAGGCAATGCCTTAGATCTTTCTGATCTTCTACACAACCTGTGTATTTCG
 TCCCCAGGCATTTCAACTGTGCAGAAGTATCTAATATCAGCGCTCATGTCCGGATCCAGCATCATCGG
 TACCCTCTGCGGTAGCATCAGGGCTCACGAAGTTAACCTCCAGGAAGGACAGCTGTAATGCAGAGAGGGA
 GTTTCTGCAGGGCGCCACCATCACCGAGGCTTCTGCTGGCAATGATGACATCTTTGGGTTGAGCACGGAT
 AGCCTGTCGCGTTTACGAAGCCCATCTGTTCTGGAAGTTAGAGAGAAGGGCTACGAAAGGTTAAAGGAAG
 AACTTGCAAAAGCTCAGAGGGAAGCTCACAAGATGGTGAGGGAAGCGAACGTCAAGCAAGCCACTGCAGA
 GAAGCAGCTGAAGGAAGCCAGGGGAAAATTGATGTACTTCAGGCTGAAGTGGCCGCTCTGAAGACTC
 GTACTGTCAGATTCTCCAACATCGCTACGCAGGAGCCTCTGGCGCTGCAAAAGACCCCTTTAAAGGG
 GGCACACAAGGAACAAAAGTACAAGCAGCGCCATGGGTGGGAGCCACCAGGACTTGAGTGTGATCCAGCC
 AATCGTAAAAGACTGCAAGAGGCTGATTTATCGCTGTATAATGAGTTGATGATCTTGAAGGATGAGCCC
 ACGATGGACAGAACGTGTCCTTTCTGGACAAAATCTACCAGGAGGACATCTTTCCATGTTTAAACATTTG
 CAAAGAGTGAGTTGGCTTCAGCTGTTCTGGAGGCTGTGGAGAACAACACTTAAGCATCGAACCAAGTGGG
 GTTGCAGCCATCCGCTTCGTGAAGGCTCCGCTGTCGAGTGGGAGGGCCAAAAAGTGTGCGCTCACT
 GGCCAGAGTAAGCCCTGCAGGCACAGGATTAGGCTCGGGACTCCAGCTGCTGTTACTACATCTCTCCTT
 TCTGCAGATACAGGATCACTTCTGTATGTAACCTTTTTTACATACATTGATACATTGATACATTGATAC
 GAAACAGCAGGATGTCGATCAGATGTTTTGGGAAGTTATGCAGTTGAGAAAGGAGATGTCGTTGGCAAAG
 CTGGGATATTTCAAAGAGGAACTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR206828 protein sequence
 Red=Cloning site Green=Tags(s)

MANDPLEGFHEVNLASPTSPDLLGVCDPGTQEQTSPSVIYRPHSTLCAAPLQANALDLSLPTQPVYS
 SPRHFNCAEVSNISAHAPDPASSVPSAVASGLTKLTSRKDSCNAEREFLLQGATITEASAGNDDIFGLSTD
 SLSRLRSPSVLEVREKGYERLKEELAKAQREAHKVMREANVKQATAEKQLKEAQKIDVLQAEVAALKTL
 VLSSSPTSPTQEPLAAAKTPFKRGHTRNKSTSSAMGGSHQDLVSIQPIVKDCKEADLSLYNEFRSWKDEP
 TMDRTCPFLDKIYQEDIFPCLTFKSELASAVLEAVENNTLSIEPVGLQPIRFVKASAVECGPKKCAL
 GQSKPCRHRIRLGDSSCCYYISPFCRYRITSVCNFFTYIRYIQQLVKQQDQDQMFWEVMQLRKEMSLAK
 LGYFKEEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001003950

ORF Size: 1287 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_001003950.3](#)

RefSeq Size: 2690 bp

RefSeq ORF: 1287 bp

Locus ID: 216363

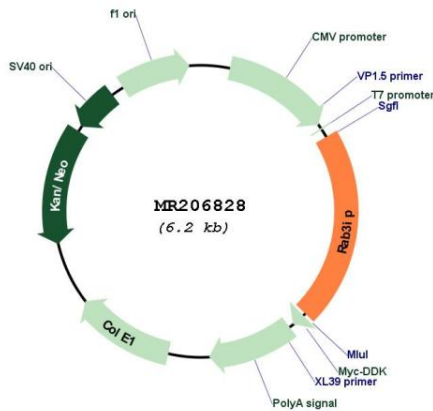
UniProt ID: [Q68EF0](#)

Cytogenetics: 10 64.96 cM

MW: 47.1 kDa

Gene Summary: Guanine nucleotide exchange factor (GEF) which may activate RAB8A and RAB8B. Promotes the exchange of GDP to GTP, converting inactive GDP-bound Rab proteins into their active GTP-bound form. Mediates the release of GDP from RAB8A and RAB8B but not from RAB3A or RAB5. Modulates actin organization and promotes polarized transport of RAB8A-specific vesicles to the cell surface. Together with RAB11A, RAB8A, the exocyst complex, PARD3, PRKCI, ANXA2, CDC42 and DNMBP promotes transcytosis of PODXL to the apical membrane initiation sites (AMIS), apical surface formation and lumenogenesis (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206828