

Product datasheet for **MG206828**

Rab3ip (NM_001003950) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rab3ip (NM_001003950) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rab3ip
Synonyms:	B230311A06; Gtpat12; Rabin3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206828 representing NM_001003950 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTAACGACCCCTTGAAGGCTTCCATGAAGTGAACCTTGCTTCGCCTACTTCTCCAGACCTTCTTG
GTGTGTGTGACCCGGAACCCAAGAGCAGACTACCTCCCCGAGCGTCATCTACCGCCACACCCCTCCAC
GTTATGCGCTGCCCTCTCCAGGCCAATGCCTTAGATCTTTCTGATCTTCTACACAACCTGTGTATTTCG
TCCCCAGGCATTTCAACTGTGCAGAAGTATCTAATATCAGCGCTCATGCTCCGGATCCAGCATCATCGG
TACCCTCTGCGGTAGCATCAGGGCTCACGAAGTTAACCTCCAGGAAGGACAGCTGTAATGCAGAGAGGGA
GTTTCTGCAGGGCGCCACCATCACCAGGCTTCTGCTGGCAATGATGACATCTTTGGGTTGAGCAGGGAT
AGCCTGTGCGGTTTACGAAGCCCATCTGTTCTGGAAGTTAGAGAGAAGGGCTACGAAAGGTTAAAGGAAG
AACTTGCAAAAAGCTCAGAGGGAAGCTCACAAAGTGGTGAAGGAAGCGAACGTCAAGCAAGCCACTGCAGA
GAAGCAGCTGAAGGAAGCCAGGGGAAAATTGATGTACTTCAGGCTGAAGTGGCCGCTCTGAAGACTC
GTACTGTCCAGTTCTCCAACATCGCTACGCAGGAGCCTTGGCGGCTGCAAAGACCCCTTTAAAGGG
GGCACACAAGGAACAAAAGTACAAGCAGCGCCATGGGTGGGAGCCACCAGGACTTGAGTGTGATCCAGCC
AATCGTAAAAGACTGCAAAGAGGCTGATTTATCGCTGTATAATGAGTTCAGATCTTGAAGGATGAGCCC
ACGATGGACAGAACGTGTCCTTTCTGGACAAAATCTACCAGGAGGACATCTTTCCATGTTTAAACATTTG
CAAAGAGTGAGTTGGCTTCAGCTGTTCTGGAGGCTGTGGAGAACAACACTCTAAGCATCGAACCAAGTGGG
GTTGCAGCCCATCCGCTTCGTGAAGGCTTCGCTGTCGAGTGCAGGAGGGCCAAAAAGTGTGCGCTCACT
GGCCAGAGTAAGCCCTGCAGGCACAGGATTAGGCTCGGGACTCCAGCTGCTGTTACTACATCTCTCCTT
TCTGCAGATACAGGATCACTTCTGTATGTAACCTTTTTACATACATTTCGATACATTTCAGCAGGGACTCGT
GAAACAGCAGGATGTCGATCAGATGTTTTGGGAAGTTATGCAGTTGAGAAAGGAGATGTCGTTGGCAAAG
CTGGGATATTTCAAAGAGGAATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206828 representing NM_001003950
 Red=Cloning site Green=Tags(s)

MANDPLEGFHEVNLASPTSPDLLGVCDPGTQEQTTSVSIYRPHSTLCAAPLQANALDLSLPTQPVYS
 SPRHFNCAEVSNI SAHAPDPASSVPSAVASGLTKLTSRKDSCNAERFLQGATITEASAGNDDIFGLSTD
 SLSRLRSPSVLEVREKGYERLKEELAKAQREAHKVMREANVKQATAEKQLKEAQKIDVLQAEVAALKTL
 VLSSTPTSQEPLAAAKTPFKRGHTRNKSTSSAMGGSHQDL SVIQPIVKDCKEADLSLYNEFRSWKDEP
 TMDRTCPFLDKIYQEDIFPCLTF AKSELASAVLEAVENNTLSIEPVGLQPIRFVKASAVECGGPKKCAL
 T GQSKPCRHRIRLGDSSCCYYISPFRCRYRITSVCNFFTYIRYIQQLVKQQDQVDFWFEVMQLRKEMSLAK
 LGYFKEEL

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001003950

ORF Size: 1284 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

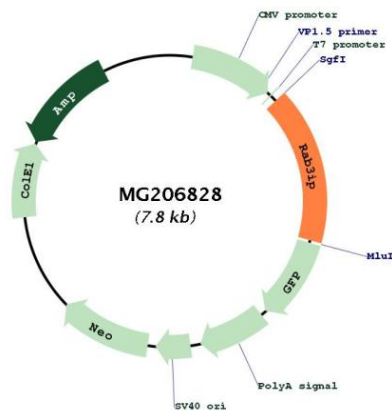
Locus ID: 216363

UniProt ID: [Q68EF0](#)

Cytogenetics: 10 64.96 cM

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 MG206828