

Product datasheet for **MC201452**

Rab7b (NM_145509) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rab7b (NM_145509) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rab7b
Synonyms:	5430435G22Rik
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC019395 sequence for NM_145509
 CTCAGAGGGAAGTGGCCTCTACCAAAACCGTTTTCGCTTCTCAATACTGGCCAGATTGAACTGCCACTC
 CTAGAAGAGAGACCCAGACCTAGAACTCCCACCTGTGTGAGGCCCTGAAGCCCCTCATGAATCCCCGAAA
 GAAAGTGGACTTGAACTTATCATTGTTGGTGCCTTGGCGTGGGAAAGACCTCTTCTTCCACCAATAT
 GTACACAAAACATTTTTCGAGGAATACCAGACCACACTGGGGCCAGCATCCTCTCCAAAATCATCATAT
 TGGATGACACAACCTTTGAAGCTGCAGATCTGGGACACAGGTGGTCAGGAGCGGTTCCGCTCAATGGTATC
 AACATTTACAAAAGTTCCGATGGCTGTATCCTGGCATTGATGTTACTGATCCAGAGCTTTGAAGCC
 CTGGATATCTGGAGGGATGATGTCTGGCAAAGATTATCCCTATGGAGCAGTCATATCCCATGGTGGTGC
 TGGGGAACAAAATCGATCTGGAAGATAGGAAGGTGCCAGGAGGTGGTCCATGGATGGTGTAAAGAGAA
 GGATATGCCATATTTGAAGTTAGTGCGAAGAATGACATCAATGTGGTACAAGCCTTTGAGGTTCTGGCC
 AGCCGGGCTCTGTTGAGGTACCAGGGCACCGCAGAGAACCACCTCATAGACTCCATCAAGCTCTCTCCAG
 GCCAGCCAAAGAGCAGATGCTGCTGATCCTGGCCTCCCTCCGACTCCCAGTACAGCTGTGCAGCCATT
 CCAAGTCAATCCCACCAGCCGGTACTCAGCTAGGAGGCTGGGGCACTGCAGCAGGAGAGAATGTCACAG
 GCAAACTCTGGTCCCAGAGAAAACACGGGCGTCCATGACTCAAGCTCCTTTTCTCTCTGCCTCAAC
 ACCGCTCTGCTCATCTCTGCAGACAAATGCTCCCTTCAGCACCATGGACCGACAGGTTTGGATGGAGAT
 GCAGTTCTGATTCCCTCAGCAGCCAGAACATGGACCGCTCCTGACAGGCAGAAGCCACAGGCTGAGAC
 TTTCCACAGCTTCTTTCAGGGAGAGCTGAGGGAGCAAGATAAAAAACAGTTGTACCTATTTCTGGGTGCT
 CAAACAGCTCCCAATAACTGACCAGGCCTCAGTGCGCCCTCTGCCAAATGAGAGTTCCCAAGGCTTCCCA
 TATCCTAGGGCGACTGAGAACCAATAATCTCATTAAATCCCACGTGCTGGTGTGGACACACATGCTCACT
 CCTTTGGAGAGTATTTTGTATGCCTTCGATGTACATTGCACTGAAGTACCAGACACACAAAAGCAGACAT
 GAGTCTTCACTCCAGAAGCGCACCTGGAGAGAGAGGGCCAGCAGACATGAGCAAGACAGACAACAGCA
 ACGAGGTACTGTTTTAGACAAAAGGGGCCAAGAGGGCTTTCCTGTGACGGTGACCGTTGGGCTGGCCTC
 CAGGAAGAGCTACAGGAAGAACAATGCCAGGAGAGGGAGCAGCTAGGCCAAGGCTTGAGGCAATGGGCAG
 AGTGCTGCATTCCATTCCCTGAGGACTCAAAGCTGCTCAGAGAAAAAAGGCCAGGGATGTCCTGTCCCC
 AGAAGGTACTTTGATCATTGATGACTGGCCACTAGGGGGCAGAAGTGTCTCTGCTTTTAGGCTGAGGA
 GTTCTGGTAAACACTTGAAAAGCTGGTGTGTTGTGTCAAGAAAAATGGCTGAAGCTTGTTCACAGGCTGTAGG
 AATGTTGAACCTGGGCTAGTTGGGTTAAAAAATAAATCAAAATGTCTTGATTACAGGCAACAAATCGAAA
 TCAGAGACAGATCCCAGAGCGAGGTAAGTGGAGAGCTGTGGATTCTGTGCTCTGTTCAATTCAAAGCTAG
 AACCTATTTTTTTTCTTCTGGCTTCACTGCACAGATAGGGTGGCTCATTCTGAAGGAGGTGGACAGA
 ACGAACTTTCAGGGTCTCAATGGTCAGGTTACATCTCATGCCTTCCACAGACATTCCTGTCTCCACAG
 AAGTCTTCTTTCTGAGTTCCAAGCAGATCCGAGGTGCCAATCTCTTACACGCATTCTCAGACCCGCCA
 GGAAGAACGCAGCAAACAGAAATCTTCTCGCGCAAACTTTATTGCTTACATCTTCAAGGCAAGAGTGC
 AAGAGAGCAAGAGCTAGAAAGCAAGAAAAAGAACAAAGAAAGCAAGAGCAAGAGAGAGAAAAAGC
 AAGAACAAGAGAGAGAGAAAAAATGGCAAAACCCCGTCCCTTTTAAAGGAGAATTATCCTCCGCCTAGGAC
 GTATTACTCCCTGATTGGCTGCAGCCCATCGGCTCAGTTGTATCAGGAGAAAGGCAGAACACATGGCGG
 GAAAACTGCCCTGCACGTGTGCAGATTATGTTACTACTTAGAACACAGCTGTGAGCCATCTTGTA
 TGGCAATGTGAGGGCGGCTCCCAACATCAATCTTAGGAAGCCAGTCAGGGGTTACTAAGTGGGGTCT
 GGGGGCTCTGTCTGCACCCGCTAGCTCTGAGGTATAAAGCAACTTACTAAGGACAGCAGTCACAGGAAC
 AGTGAGCCCTGCTCCTCAGAGATGAACACTGTGCCCCGTACACATTGGTGTGGCTCTCTGAAGT
 AGACTGTGGAGGGATGTGTGTGTGTGGGGTGCATTTCGGCAGCACAATGAACATAAAGACCATATCTA
 AGGGTACGCAGCAAAATAGTATGTGTTTCCATTGTTTATATCCTTTATGGGACAATAGTCCCTCTGGTCA
 GTGATACCAGTCTCAGTTACCCATGGTCAACTGTGGACAAAAATATTAATAGCAAAATCCCAGAAATAA
 ATAACCTACAACCTTCAATGCAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_145509
Insert Size: 987 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	BC019395
RefSeq Size:	2909 bp
RefSeq ORF:	987 bp
Locus ID:	226421
UniProt ID:	Q8VEA8
Cytogenetics:	1 E4
Gene Summary:	Controls vesicular trafficking from endosomes to the trans-Golgi network (TGN). Acts as a negative regulator of TLR9 signaling and can suppress TLR9-triggered TNFA, IL6, and IFNB production in macrophages by promoting TLR9 lysosomal degradation. Also negatively regulates TLR4 signaling in macrophages by promoting lysosomal degradation of TLR4. Promotes megakaryocytic differentiation by increasing NF-kappa-B-dependent IL6 production and subsequently enhancing the association of STAT3 with GATA1. Not involved in the regulation of the EGF- and EGFR degradation pathway.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).