

Product datasheet for **MC207948**

Rab5a (NM_025887) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rab5a (NM_025887) Mouse Untagged Clone
Tag: Tag Free
Symbol: Rab5a
Synonyms: 2410015H04Rik; AI663973; AU021172; nnyRab5a
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC207948 representing NM_025887
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCTAATCGAGGAGCAACAAGACCCAACGGGCCAAATACTGGAATAAAATATGCCAGTTCAACTGG
TCCTTCTAGGAGAGTCTGCTGTTGGCAAATCAAGCCTGGTCTTCGCTTTGTGAAAGCCAATTTTCATGA
ATTTCAAGAGAGTACCATTGGGGCTGCCTTTCTAACCCAACTGTGTGTCTTGATGACACAACAGTAAAA
TTTGAAATATGGGATACAGCTGGTCAAGAACGGTATCATAGCTTAGCACCAATGTACTACCGAGGAGCAC
AAGCAGCCATAGTTGTGTATGATATCACAAATGAGGAATCCTTTGCGAGAGCAAAAACTGGGTTAAGA
ACTTCAAAGGCAAGCAAGTCTTAATATTGTGATAGCTTTGTGAGAAACAAAGCTGACTTAGCAATAAA
AGAGCTGTTGACTTCCAGGAAGCACAGTCCTATGCAGATGACAACAGCTTATTATTTATGGAGACATCAG
CTAAGACATCAATGAATGTAAATGAAATATTTATGGCAATAGCTAAAAAGCTGCCAAAGAATGAACCACA
GAATCCTGGTGCAAACCTCAGCCAGAGGACGAGGAGTAGACCTTACTGAGCCTGCACAGCCAGCCAGAAGC
CAGTGTTGTAGTAAC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_025887
Insert Size: 648 bp



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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:	NM_025887.4 , NP_080163.1
RefSeq Size:	2364 bp
RefSeq ORF:	648 bp
Locus ID:	271457
UniProt ID:	Q9CQD1
Cytogenetics:	17 27.82 cM
Gene Summary:	The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes different sets of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion. RAB5A is required for the fusion of plasma membranes and early endosomes. Contributes to the regulation of filopodia extension. Required for the exosomal release of SDCBP, CD63, PDCD6IP and syndecan (By similarity). Regulates maturation of apoptotic cell-containing phagosomes, probably downstream of DYN2 and PIK3C3 (PubMed:18425118).[UniProtKB/Swiss-Prot Function]