

## Product datasheet for **MR202450**

### Rab27b (NM\_001082553) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rab27b (NM_001082553) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rab27b
Synonyms:	2310021G14Rik; B130064M09Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202450 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACTGATGGAGACTATGATTATCTGATTAACTCCTGACCCTTGAGACTCAGGAGTCGGAAGACAA  
CATTTCTCTATAGATACACAGACAATAAATTCATCCCAAATTCATCACCACAGTGGGAATAGATTTTCG  
GGAAAAACGTGTGGTTTATGACACACAAGGAGCAGATGGAGCGTCAGGAAAAGCGTTTAAGGTACATCTG  
CAGCTTTGGGACTGCTGGACAAGAGCGGTTCCGGAGCCTTACCACTGCCTTCTCAGAGATGCCATGG  
GCTTCTTACTGATGTTTGACCTACCAGTCAACAGAGCTTCTTGAATGTCAGAACTGGATGAGTCAACT  
GCAGGCAAATGCTTACTGTGAAAACCCAGACATAGTATTAATTGGCAACAAGGCGGACCTGCCAGACCAA  
AGGGAAGTCAATGAACGGCAAGCACGGGAGCTGGCTGAAAAATATGGCATACCATACTTCGAAAACAAGCG  
CAGCTACAGGACAGAATGTAGAGAAGTCAGTGGAAACGCTTCTGGACTTAATCATGAAGAGAATGGAAAA  
GTGTGTAGAGAAGACACAGGTTCCGGACTGTCAATGGAGGAAATCTGGAAAGCTGGATGGGAAAAAG  
CCAGCAGAAAAGAAATGTGCCTGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR202450 protein sequence  
Red=Cloning site Green=Tags(s)

MTDGDYDYLKLLTLGDSGVGKTTFLYRYTDNKFNPKEITTVGIDFREKRVVYDTQGADGASGKAFKVHL  
 QLWDTAGQERFSLTTAFFRDAMGFLMFDLTSQQSFLNVRNWMSQLQANAYCENPDIVLIGNKADLPDQ  
 REVNERQARELAEKYGIPYFETSAAATGQNVKESVETLLDLIMKRMKCKVEKTQVPDVTVNGGNSGKLDGEK  
 PAEKKAC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_001082553

**ORF Size:** 657 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\\_001082553.1](#), [NM\\_001082553.2](#), [NP\\_001076022.1](#)

**RefSeq Size:** 6876 bp

**RefSeq ORF:** 657 bp

**Locus ID:** 80718

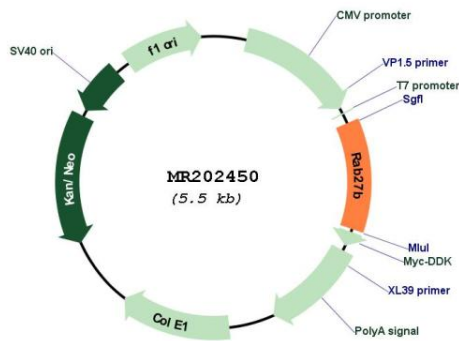
**UniProt ID:** [Q99P58](#)

**Cytogenetics:** 18 43.89 cM

**MW:** 24.6 kDa

**Gene Summary:** Plays a role in NTRK2/TRKB axonal anterograde transport by facilitating the associaton of NTRK2/TRKB with KLC1. May be involved in targeting uroplakins to urothelial apical membranes.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR202450