

## Product datasheet for MR202325

### Rab25 (NM\_016899) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rab25 (NM_016899) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rab25
Synonyms:	AV012978
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202325 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGAATCGAACAGATGAAGATTATAACTTTGTCTTTAAGGTGGTGCTGATCGCGAGTCAGGCGTGG  
GCAAGACCAATCTGCTGTCCCGTTACCCCGCAATGAGTTCAGCCACGACAGTCGCACCACCATCGGGT  
TGAGTTCTCCACCGCACTGTAATGCTGGGCACCGCTGCTGTCAAGGCACAGATCTGGACACGGCCGGC  
CTGGAGAGATACAGAGCCATCACCTCTGCTACTATCGTGGGGCCGTGGGGCACTCCTGGTATTTGACC  
TGACCAAGCACCAGACCTACGCTGTGGTGGAGCGCTGGCTAAAGGAGCTGTATGACCATGCCGAAGCCAC  
GATTGTTGTATGCTCGTGGGGAACAAAAGTGACCTCAGCCAGGCCGAGAGGTCCTACTGAGGAGGCC  
TGATGTTTGCTGAAAACAATGGCCTGCTGTTCCCTGGAGACGTCAGCCCTCGACTCCACCAATGTTGAGC  
TAGCCTTCAGACTGTCTCAAAGAGATCTTTGCAAAGGTGTCCAAGCAGAAGCAGAACAGCACCCGGAC  
CAGTGCCATCACCTGGGCAATGCCAAGCTGGACAGGATCCTGGCCCTGGGAAAGAGGGCCTGTTGC  
ATCAGCCTC

**ACGCGT**ACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR202325 protein sequence  
 Red=Cloning site Green=Tags(s)

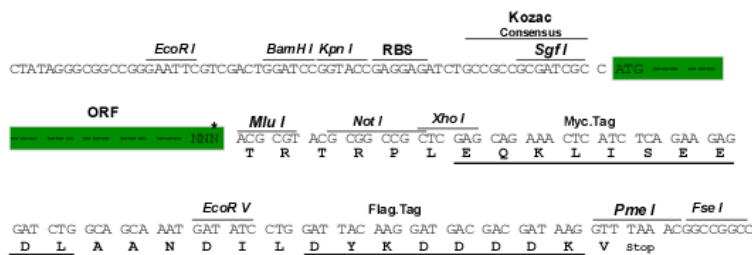
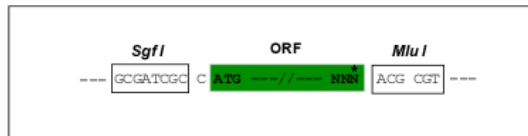
MGNRTDEDYNFVFKVVLIGESGVGKTNLLSRFTRNEFSHDSRTTIGVEFSTRTVMLGTAAVKAQIWDTAG  
 LERYRAITSAYYRGAVGALLVFDLTKHQTYAVVERWLKELYDHAETIVVMLVGNKSDL SQAREVPTEEA  
 CMFAENGLLFLFLETSALDSTNVELAFQTVLKEIFAKVSKQKQNSTRTSAITL GNAQAGQDPGPGEKRACC  
 ISL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_016899

**ORF Size:** 642 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\\_016899.4](#)

**RefSeq Size:** 1060 bp

**RefSeq ORF:** 642 bp

**Locus ID:** 53868

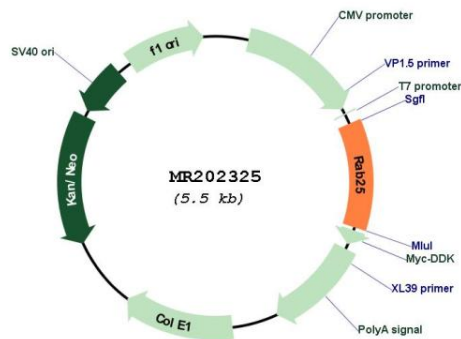
**UniProt ID:** [Q9WTL2](#)

**Cytogenetics:** 3 F1

**MW:** 23.5 kDa

**Gene Summary:** Involved in the regulation of cell survival. Promotes invasive migration of cells in which it functions to localize and maintain integrin alpha-V/beta-1 at the tips of extending pseudopodia. Involved in the regulation of epithelial morphogenesis through the control of CLDN4 expression and localization at tight junctions (PubMed:22696678). May selectively regulate the apical recycling pathway. Together with MYO5B regulates transcytosis (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR202325