

## Product datasheet for **RC205024**

### **RABL3 (NM\_173825) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RABL3 (NM_173825) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RABL3
Synonyms:	PNCA5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205024 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGTCCCTGGATCGGGTGAAGGTAAGTACTGGTGTGGGAGACTCAGGTGTTGGGAAATCTTCGTTAGTCC  
ATCTCCTATGCCAAAATCAAGTCTGGGAAATCCATCATGGACTGTGGGCTGCTCAGTGGATGTCAGAGT  
TCATGATTACAAAGAAGGAACCCAGAAGAGAAGACCTGCTACATAGAATTATGGGATGTTGGAGGCTCT  
GTGGGCAGTGCCAGCAGCGTGAAAAGCACAAAGAGCAGTATTCTACAACCTCCGTAATGGTATTATTTTCG  
TACACGACTTAACAAATAAGAAGTCCTCCAAAACCTGCGTCGTTGGTCATTGGAAGCTCTCAACAGGGA  
TTTGGTGCCAACCTGGAGTCTTGGTGACAAATGGGGATTATGATCAAGAACAGTTTCTGATAACCAATA  
CCACTGTTGGTAATAGGGACTAACTGGACCAGATTCATGAAACAAGCGCCATGAAGTTTTAACTACGA  
CTGCTTCTGGCTGAGGATTTCAATCCAGAAGAAATTAATTTGGACTGCACAAATCCACGGTACTTAGC  
TGCAGGTTCTTCCAATGCTGTCAAGCTCAGTAGGTTTTTTGATAAGGTATAGAGAAGAGATACTTTTTA  
AGAGAAGGTAATCAGATTCAGGCTTCTGATCGGAAAAGATTTGGGCGAGGAACATTAAGAGCCTTC  
ATTATGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC205024 protein sequence  
 Red=Cloning site Green=Tags(s)

MASLDRVKVLVLGDSGVGKSSLVHLLCQNQVLGNPSWTVGCSVDVRVHDYKEGTPEEKTCYIELWDVGGSVGSASSVKSTRAVFYNSVNGIIFVHDLTNKKSSQNLRRWSLEALNRDLVPTGVLVTNGDYDQEQFADNQIPLLVIQTKLDQIHETKRHEVLTTF AFLAEDFNPEEINLDCTNPRYLAAGSSNAVKLSRFDFDKVIEKRYFLREGNQIPGFPRKRFAGTLKSLHYD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6551\\_c11.zip](https://cdn.origene.com/chromatograms/mk6551_c11.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_173825

**ORF Size:** 708 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\\_173825.1](#)

**RefSeq Size:** 3883 bp

**RefSeq ORF:** 711 bp

**Locus ID:** 285282

**UniProt ID:** [Q5HYI8](#)

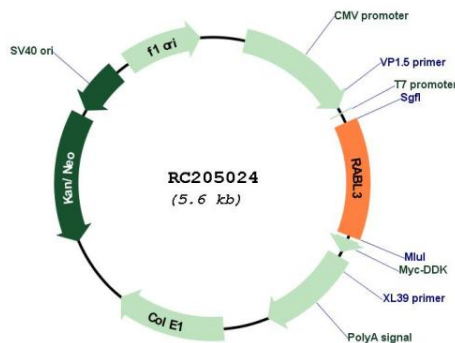
**Cytogenetics:** 3q13.33

**Protein Families:** Druggable Genome, Transcription Factors

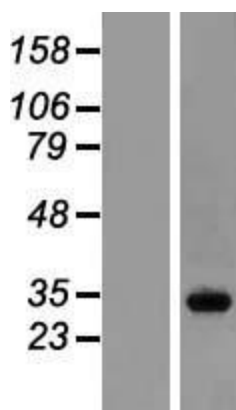
**MW:** 26.3 kDa

**Gene Summary:** Required for KRAS signaling regulation and modulation of cell proliferation (PubMed:31406347). Regulator of KRAS prenylation, and probably prenylation of other small GTPases (PubMed:31406347). Required for lymphocyte development and function (By similarity). Not required for myeloid cell development (By similarity).[UniProtKB/Swiss-Prot Function]

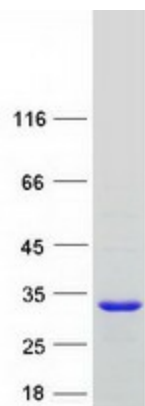
### Product images:



Circular map for RC205024



Western blot validation of overexpression lysate (Cat# [LY406430]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205024 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RABL3 protein (Cat# [TP305024]). The protein was produced from HEK293T cells transfected with RABL3 cDNA clone (Cat# RC205024) using MegaTran 2.0 (Cat# [TT210002]).