

## **Product datasheet for MR202531**

## Rab27a (NM\_023635) Mouse Tagged ORF Clone

## **Product data:**

**Product Type:** Expression Plasmids

Product Name: Rab27a (NM\_023635) Mouse Tagged ORF Clone

Tag: Myc-DDK
Symbol: Rab27a

**Synonyms:** 2210402C08Rik; 2410003M20Rik; 4933437C11Rik; ash

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>MR202531 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

 ${\tt TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC}$ 

GCCGCGATCGCC

ATGTCGGATGGAGATTACCATTACCTCATCAAGTTCTTGGCCTTGGGAGACTCTGGGGTAGGGAAGACGA
GTGTACTCTACCAGTACACTGATGGCAAGTTCAACTCCAAATTCATCACCACAGTGGGCATTGATTTCAG
GGAAAAGAGAGTGGTGTACAGAGCCAATGGGCCAGATGGAGCTGTGGGCCGAGGCCAGAGAATCCACCTG
CAGTTATGGGACACCGGCGGGCAGGAGAGGTTTCGTAGCTTAACCACTGCATTCTTCAGGGACGCTATGG
GTTTCCTGCTTCTGTTCGACCTGACAAATGAGCAAAGTTTCCTCAATGTCCGAAACTGGATAAGCCAGCT
ACAGATGCACGCGTACTGTGAAAACCCAGATATAGTGCTGTGTGGAAATAAGAGTGACCTGGAAGACCAG
AGGGCAGTGAAAGAGGAGGCCCGGGAGCTTGCCGAGAAGTACCGCATCATTTTTGAAACCAGTG
CTGCCAACGGGACAAACATAAGCCACCGCGATTGAGATCCTCTGGACCTGATCATGAAGCGGATCAGCTA
GTGTTGTGGACAAGTCCTGGATTCCGGAGGGGAGTGGTACGGTCCAACGGCCATACCTCTGCGGATCAGCTA

AGTGAGGAGAAGGAGAAGGGGTTGTGTGGCTGT

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



**Protein Sequence:** >MR202531 protein sequence

Red=Cloning site Green=Tags(s)

MSDGDYDYLIKFLALGDSGVGKTSVLYQYTDGKFNSKFITTVGIDFREKRVVYRANGPDGAVGRGQRIHL QLWDTAGQERFRSLTTAFFRDAMGFLLLFDLTNEQSFLNVRNWISQLQMHAYCENPDIVLCGNKSDLEDQ RAVKEEEARELAEKYGIPYFETSAANGTNISHAIEMLLDLIMKRMERCVDKSWIPEGVVRSNGHTSADQL SEEKEKGLCGC

**SGPTRTRPL**EQKLISEEDLAANDILDYKDDDDK**V** 

**Restriction Sites:** 

Sgfl-RsrII

**Cloning Scheme:** 



		EcoR	ı		BamHI Kpn I				s	-		nsensi Sg					
CTATAGGGCGG	CCGGG.	AATT	CGTC	GACT	GGAT	CCGG	TACC	GAGG	AGAT	CTGC	cgcc			С	ATG -		
ORF .	RsrII			м	lu I		No	at I	Xho I			Myc.Tag					
NNN	AGC S	GGA G	CCG	ACG T	CGT R	ACG T	CGC R	P	CTC L	GAG E	CAG Q	AA.A K	L	AT(	C TCA	GAA E	GAG E
			Eco	R V				Flag.Ta	ag					P	me I	E	se I
GAT CTG GCA	GCA A	AAT <b>N</b>	GAT D	ATC I	CTG L	GAT D	TAC Y	AAG <b>K</b>	GAT D	GAC D	GAC D	GAT D	AAG K	GTT V	TAA Stop	ACGG	cagga

<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_023635

ORF Size: 666 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 023635.1, NM 023635.2, NM 023635.3, NM 023635.4, NM 023635.5, NM 023635.6,

NP 076124.1

 RefSeq Size:
 3066 bp

 RefSeq ORF:
 666 bp

 Locus ID:
 11891

 UniProt ID:
 Q9ERI2

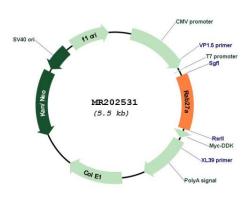
 Cytogenetics:
 9 40.08 cM

**MW:** 25 kDa

Gene Summary: The protein encoded by this gene is a member of the Rab family of proteins, which is the largest family within the Ras superfamily of GTPases. This gene product is thought to regulate vesicular transport, together with its specific effectors. Mutations in this gene cause several defects, including actin-based melanosome transport defects and immunodeficiency.

Mutations in the human ortholog of this gene are associated with Griscelli syndrome type 2. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]

## **Product images:**



Circular map for MR202531