

## Product datasheet for SC100369

### RBJ (DNAJC27) (NM\_016544) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RBJ (DNAJC27) (NM_016544) Human Untagged Clone
Tag:	Tag Free
Symbol:	RBJ
Synonyms:	RabJS; RBJ
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC100369 sequence for NM_016544 edited (data generated by NextGen Sequencing)

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ATGGAGGCCAACATGCCGAAGCGGAAGGAGCCTGGCAGGTCTCTCCGCATCAAAGTCATC
TCCATGGGCAACGCCGAAGTGGGAAAAGCTGTATTATAAAGCGATACTGTGAGAAAAGA
TTCGTGTCTAAATACCTGGCAACAATTGGAATTGACTATGGAGTCACAAAGGTACACGTC
AGAGACAGAGAAATCAAAGTAAACATCTTTGATATGGCTGGACATCCCTTCTTCTATGAG
GTTTCAAATGAGTTTTACAAGGACACACAGGGTGTGATACTGGTCTATGATGTTGGGCAG
AAAGACTCCTTTGACGCCCTTGATGCGTGGCTGGCAGAAATGAAGCAAGAGCTTGGACCT
CATGGAAACATGGAAAATATTATATTTGTAGTTTGTGCCAACAAGATTGATTGTACAAA
CATCGCTGTGTAGATGAAAGTGAAGGACGCTTTGGGCTGAAAGCAAAGGTTCCCTGTAC
TTTGAAACTTCAGCACAACTGGAGAAGGCATTAATGAGATGTTCCAGACCTTTTATATA
TCCATAGTTGATTTATGTGAAAATGGCGGAAACGCCCTACCACCAATAGCAGTGCTAGT
TTCACCAAGAACAAGCAGATGCCATTCGAGAATTCGAAATAGTAAAGCAGTTGGGAC
ATGCTGGGAGTCAAACCTGGGGCTCAAGGGATGAAGTCAATAAAGCGTATCGGAAACTT
GCTGTGCTTCTTACCCTGACAAATGTGTAGCACCTGGCAGTGAAGATGCCTTCAAAGCA
GTTGTGAATGCTCGGACAGCCCTCTGAAAACATCAAGTAG

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Clone variation with respect to NM\_016544.2  
33 c=>t



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_016544 unedited  
 CTCTTGTATACGACTCCTATAGGCGGCCGCGAAATTCGCACGAGGGAAAAGACCGAGGCC  
 GGTGGNCCCCGNATAGAGCCAGGGCCATGGAGGCCAACATGCCGAAGCGGAAGGAGCCTG  
 GCAGGTCTCTCCGCATCAAAGTCATCTCCATGGGCAACGCCNAAGTGGGGAAAAGCTGTA  
 TTATAAAGCGATACTGTGAGAAAAGATTCGTGTCTAAATACCTGGCAACAATTGGAATTG  
 ACTATGGAGTCACAAAAGGTACACGTCAGAAACAGAGAAATCAAAGTTAACATCTTTGATA  
 TGGCTGGACATCCCTTCTTCTATGAGGTTGAAATGAGTTTTACAAGGACACACAGGGTG  
 TGATACTGGTCTATGATGTTGGGCAGAAAGACTCCTTTGACGCCCTTGATGCGTGGCTGG  
 CAGAAATGAAGCAAGAGCTTGGACCTCATGAAACATGGAAAATATTATATTTGTAGTTT  
 GTGCCAACAAAGATTGATTGTACCAACATCGCTGTGTAGATGAAAGTGAAGGACGCTTTT  
 GGGCTGAAGCAAAGGGTCTGTACTTTGAAACTTCAGCACAAACTGGAGAAGGCATTAA  
 TGAGATGTTCCAGAACTTTATATATCCATAGTTGATTTATGTAAAAATGGCGGGAAACG  
 CCCTACCCCAATAGCAGTGCTAGTTTACCAAAAAACAAGCAGATGCCATTGCGAGAATTC  
 GAAATAGTANAGACAGTTGGGACATGCCTTGAAGTCAAACCTGGGCCTCAAGGAATATG  
 AGTCATTNAAGCGTATCGAAACTTTTGCTGTGCTTCTTACCTGACAAATGTGTAGACCT  
 TTTGCAANGGAAAATGCTTCAAAAAAAATTTGGGATTTGCTCGAGACAGNCCTTCTTGA  
 AACATAGGTTGANAA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_016544 unedited  
 AGCTTGTACGCGGCCGCTTCTANGATCGAGTTTTTTTTTTTTTTTTTTTTAAAAACTGATT  
 CAGAGCTTGCAGTGGCTGCTTACTTACTCTGGCTATCTTTCAGAAATTTAGCTGCCTTAT  
 CTATAGCTCATTTAACTAACAGTGAATTAGGTACTAGTTTATAGGTATAAAGAAATAGTT  
 ACTTAGTTGAGAATCAATATATGAGAACATACTAGAGTAAGTTTCTTGAGGTAAAAGTA  
 TGCTTAAAGAATGATGTGCAATCTATAAACTGTAGCATTTTCTTGGGTAGCAACAC  
 AATGACCCCCAAGTCTGGATTTTTAAATTAACAGGCTAAGAAAATAAGGACACATTGAT  
 ATAGAGAAATAAAATAACAATGCTGAAGTCAAAGAAATATTGACAGCTGAGATATCAATT  
 CAAAAGGAGGCATGAAGGGGAACAGAGGAACAGAAGGAGGCTGTATTTAAAGTGCTTAG  
 GTAGGTTAGAAGATGAATTTGAAATGCCTCCAGGGATTTCTAACAAGTTTAAAAAGTGT  
 ACTTCTTGGTGACTCAGATGTTGAAGACATGGCTTTTCTTATAATAGCTATTCAAACCT  
 TTTATTTTTTTGAAAAACAAGATTCTCTATAAAAAACGTTTTAGCCATTGGTATTATTC  
 TGCTAGCTGTTACTCTCACTAATGTATTTGAAATCCCTACTGGCTGAAGAATTTTTAAT  
 AAGGTTGAACTACAAGCACACATTTGCACCAAGAATTTAATTAATGCATAGATGTCTG  
 TGAAAATCTGCATGAAGTTATGGCAAAAAACCTTTTCCATGGAGATCATGCTTTAATTC  
 CTAATATTTCTGCTGGAGGGATTTTGAATCCGAAAAATTTGGGACCCTGGAGCTTA  
 ACTTGGCTAATTTTATCCCTTTTACGTAATGAAGTGGTATATGGCGCATTCTTACAT  
 TAA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_016544

**Insert Size:**

4700 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_016544.1](#), [NP\\_057628.1](#)

**RefSeq Size:** 4869 bp

**RefSeq ORF:** 822 bp

**Locus ID:** 51277

**UniProt ID:** [Q9NZQ0](#)

**Cytogenetics:** 2p23.3

**Domains:** DnaJ, ras, RAN, RAS, RHO, RAB

**Gene Summary:** GTPase which can activate the MEK/ERK pathway and induce cell transformation when overexpressed. May act as a nuclear scaffold for MAPK1, probably by association with MAPK1 nuclear export signal leading to enhanced ERK1/ERK2 signaling.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.