

Product datasheet for **RG205500**

RBJ (DNAJC27) (NM_016544) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RBJ (DNAJC27) (NM_016544) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RBJ
Synonyms:	RabJS; RBJ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205500 representing NM_016544 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGCCAACATGCCGAAGCGGAAGGAGCCTGGCAGGTCTCTCCGCATCAAAGTCATCTCCATGGGCA
ACGCCGAAGTGGGAAAAGCTGTATTATAAAGCGATACTGTGAGAAAAGATTCGTGTCTAAATACCTGGC
AACAAATTGGAATTGACTATGGAGTCACAAAGGTACACGTCAGAGACAGAGAAATCAAAGTTAACATCTTT
GATATGGCTGGACATCCCTTCTCTATGAGGTTGAAATGAGTTTACAAGGACACACAGGGTGTGATAC
TGGTCTATGATGTTGGGCAGAAAGACTCCTTTGACGCCCTTGATGCGTGGCTGGCAGAAATGAAGCAAGA
GCTTGGACCTCATGGAAACATGGAAAATATTATATTTGTAGTTTGTGCCAACAAAGATTGATTGTACCAAA
CATCGCTGTGTAGATGAAAGTGAAGGACGCTTTGGGCTGAAAGCAAAGGTTCTCTGTACTTTGAAACTT
CAGCACAAACTGGAGAAGGCATTAATGAGATGTTCCAGACCTTTTATATATCCATAGTTGATTTATGTGA
AAATGGCGGGAACGCCCTACCACCAATAGCAGTGCTAGTTTACCAAAGAACAAGCAGATGCCATTTCGC
AGAATTGAAAATAGTAAAGACAGTTGGGACATGCTGGGAGTCAAACCTGGGGCCTCAAGGGATGAAGTCA
ATAAAGCGTATCGAAAATTGCTGTGCTTCTTACCCTGACAAATGTGTAGCACCTGGCAGTGAAGATGC
CTTCAAAGCAGTTGTGAATGCTCGGACAGCCCTCTGAAAAACATCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205500 representing NM_016544
Red=Cloning site Green=Tags(s)

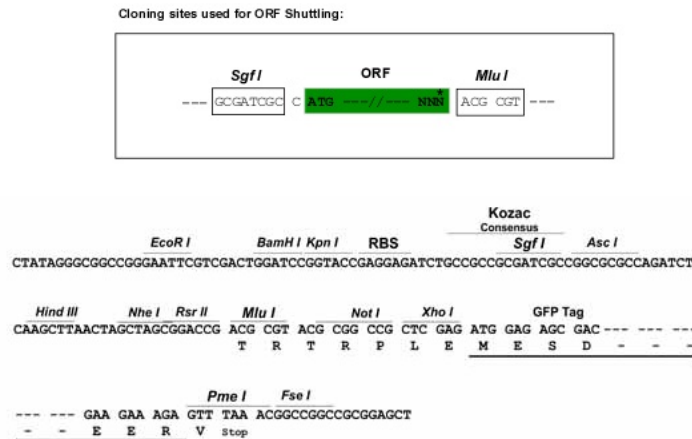
MEANMPKRKEPGRSLRIKVISMGNAEVGKSCIIKRYCEKRFVSKYLATIGIDYGVTKVHVRDREIKVNIF
 DMAGHPFFYEVRNEFYKDTQGVILVYDVGQKDSFDALDAWLAEMKQELGPHGNMENIIFVVCANKIDCTK
 HRCVDESEGRLEWASKGFLYFETSAQTGEGINEMFQTFYISIVDLCEGGKRPTTNSSASFKEQADAIR
 RIRNSKDSWDMLGVKPGASRDEVNKAYRKLAVLLHPDKCVAPGSEDAFKAVVNARTALLKNIK

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2478_a11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016544

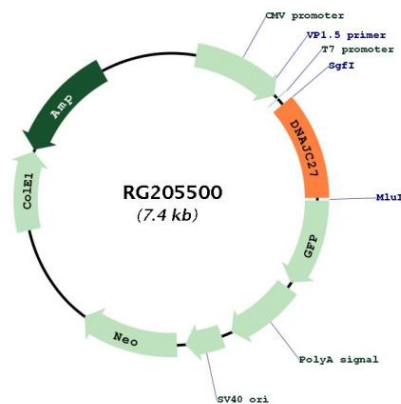
ORF Size: 819 bp

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 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](#)

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:	<ol style="list-style-type: none"> 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:	<u>NM_016544.1, NP_057628.1</u>
RefSeq Size:	4869 bp
RefSeq ORF:	822 bp
Locus ID:	51277
UniProt ID:	<u>Q9NZQ0</u>
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]

Product images:


Circular map for RG205500