OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC235801

GAJ (MND1) (NM_001253861) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GAJ (MND1) (NM_001253861) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GAJ
Synonyms:	GAJ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC235801 representing NM_001253861
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCAAAGAAAAAAGGACTGAGTGCAGAAGAAAAGAGAACTCGCATGATGGAAATATTTTCTGAAACAA
AAGATGTATTTCAATTAAAAGACTTGGAGAAGATTGCTCCCAAAGAGAAAGGCATTACTGCTATGTCAGT
AAAAGAAGTCCTTCAAAGCTTAGTTGATGATGGTATGGTTGACTGTGAGAGGATCGGAACTTCTAATTAT
TATTGGGCTTTTCCAAGTAAAGCTCTTCATGCAAGGAAACATAAGTTGGAGGTTCTGGAATCTCAGTTGT
CTGAGGGAAGTCAAAAGCATGCAAGCCTACAGAAAAGCATTGAGAAAGCTAAAATTGGCCGATGTGAAAC
GGCCAAGCAAATAAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC235801 representing NM_001253861
Red=Cloning site Green=Tags(s)

MSKKKGLSAEEKRTRMMEIFSETKDVFQLKDLEKIAPKEKGITAMSVKEVLQSLVDDGMVDCERIGTSNY
YWAFPSKALHARKHKLEVLESQLSEGSQKHASLQKSIEKAKIGRCETAKQIK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

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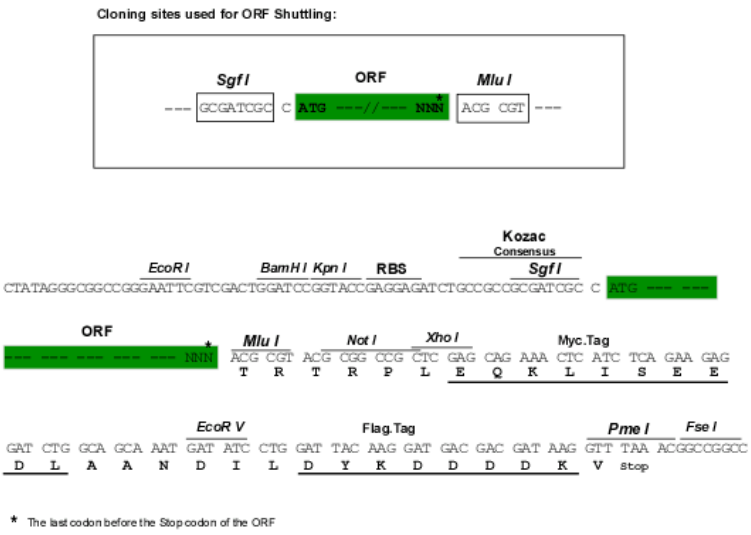
Cloning Scheme:

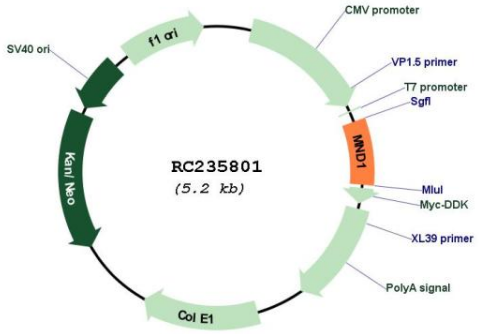


ACCN:	NM_001253861
ORF Size:	366 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001253861.1, NP_001240790.1
RefSeq Size:	830 bp

RefSeq ORF:	369 bp
Locus ID:	84057
Cytogenetics:	4q31.3
Protein Families:	Druggable Genome
MW:	14.3 kDa

Gene Summary: The product of the MND1 gene associates with HOP2 (MIM 608665) to form a stable heterodimeric complex that binds DNA and stimulates the recombinase activity of RAD51 (MIM 179617) and DMC1 (MIM 602721) (Chi et al., 2007 [PubMed 17639080]). Both the MND1 and HOP2 genes are indispensable for meiotic recombination.[supplied by OMIM, Mar 2008]

Product images:



Circular map for RC235801