

Product datasheet for **RG205713**

GAJ (MND1) (NM_032117) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	GAJ
Synonyms:	GAJ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG205713 representing NM_032117
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCAAAGAAAAAGGACTGAGTGCAGAGAAAAAGAGAACTCGCATGATGGAAATATTTCTGAAACAA
AAGATGATTTCAATTAAGAGCTTGGAGAAGATTGCTCCCAAGAGAAAGGCATTACTGCTATGTCAGT
AAAAGAAGTCCTTCAAAGCTTAGTTGATGATGGTATGGTTGACTGTGAGAGGATCGGAACCTCTAATTAT
TATTGGGCTTTTCCAAGTAAAGCTTTCATGCAAGGAAACATAAGTTGGAGTTCTGGAATCTCAGTTGT
CTGAGGGAAGTCAAAAGCATGCAAGCCTACAGAAAAGCATTGAGAAAGCTAAAAATTGGCCGATGTGAAAC
GGAAGAGCGAACCAGGCTAGCAAAAGAGCTTTCTCACTTCGAGACCAAAGGGAACAGCTAAAGGCAGAA
GTAGAAAAATACAAAGACTGTGATCCGCAAGTTGTGGAAGAAATACGCCAAGCAATAAAGTAGCCAAAG
AAGCTGCTAACAGATGGACTGATAACATATTCGCAATAAAATCTTGGCCAAAAAGAAATTTGGGTTTGA
AGAAAAATAAATTGATAGAAGCTTTTGAATTCAGAAAGACTTTGACTACATAGAC

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG205713 representing NM_032117
Red=Cloning site Green=Tags(s)

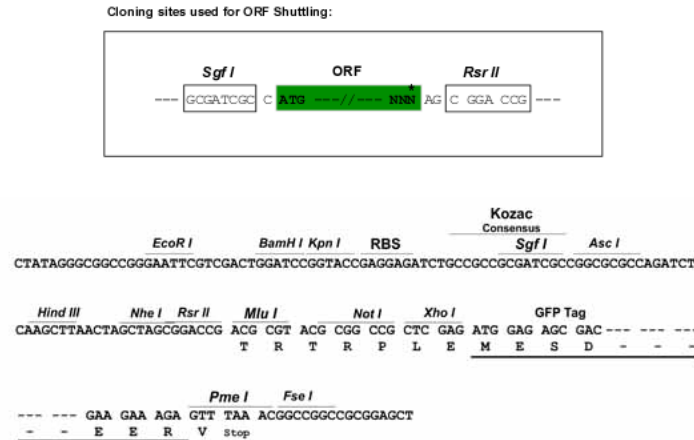
MSKKKGLSAEEKRTRMMEIFSETKDVFQLKDLKLEKIAPKEKGITAMSVKEVLQSLVDDGMVDCERIGTSNY
YWAFFSKALHARKHKLEVLSQLSEGSQKHASLQKSIEKAKIGRCETEERTRLAKELSSLRDQREQLKAE
VEKYKDCDPQVVEEIRQANKVAKEAANRWTDNIFAISWAKRKFGFEENKIDRTFGIPEDFDYID

SGPTRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII



Cloning Scheme:



ACCN: NM_032117

ORF Size: 615 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.

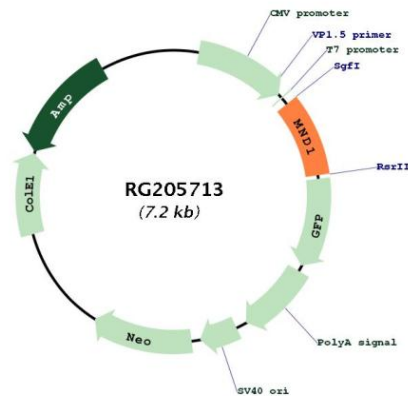
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_032117.4](#)

RefSeq Size: 941 bp

RefSeq ORF:	618 bp
Locus ID:	84057
UniProt ID:	Q9BWT6
Cytogenetics:	4q31.3
Domains:	Mnd1
Protein Families:	Druggable Genome
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 RG205713