

## Product datasheet for SC333695

### GAJ (MND1) (NM\_001253861) Human Untagged Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | GAJ (MND1) (NM_001253861) Human Untagged Clone   |
| Tag:                      | Tag Free   |
| Symbol:                   | GAJ  |
| Synonyms:                 | GAJ  |
| Mammalian Cell Selection: | Neomycin   |
| Vector:                   | pCMV6-Entry (PS100001)   |
| E. coli Selection:        | Kanamycin (25 ug/mL)   |
| Fully Sequenced ORF:      | >SC333695 representing NM_001253861.<br>Blue=Insert sequence Red=Cloning site Green=Tag(s) |

```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCAAAGAAAAAGGACTGAGTGCAGAAGAAAAGAACTCGCATGATGGAAATATTTTCTGAAACA
AAAGATGTATTTCAATTAAGACTTGGAGAAGATTGCTCCAAAGAGAAAGGCATTACTGCTATGTCA
GTAAAAGAAGTCCTTCAAAGCTTAGTTGATGATGGTATGGTTGACTGTGAGAGGATCGGAACTTCTAAT
TATTATTGGGCTTTTCAAAGTAAAGCTTTCATGCAAGGAAACATAAGTTGGAGGTTCTGGAATCTCAG
TTGTCTGAGGGAAGTCAAAGCATGCAAGCCTACAGAAAAGCATTGAGAAAAGCTAAAATTGGCCGATGT
GAAACGGCCAAGCAAATAAAGTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
```

|                    |  |
|--------------------|--|
| Restriction Sites: | SgfI-MluI  |
| ACCN:              | NM_001253861   |
| Insert Size:       | 369 bp   |
| OTI Disclaimer:    | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| 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).   |



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**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\\_001253861.1](#)

**RefSeq Size:** 830 bp

**RefSeq ORF:** 369 bp

**Locus ID:** 84057

**Cytogenetics:** 4q31.3

**Protein Families:** Druggable Genome

**MW:** 13.8 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]  
Transcript Variant: This variant (2) lacks an exon in the 3' coding region, which results in a frameshift, compared to variant 1. The encoded isoform (2) is shorter and has a distinct C-terminus, compared to isoform 1.