

Product datasheet for **SC106513**

GAJ (MND1) (NM_032117) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GAJ (MND1) (NM_032117) Human Untagged Clone
Tag:	Tag Free
Symbol:	GAJ
Synonyms:	GAJ
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_032117, the custom clone sequence may differ by one or more nucleotides

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ATGTCAAAGAAAAAGGACTGAGTGCAGAAGAAAAGAGAACTCGCATGATGGAAATATTTTCTGAAACAA
AAGATGTATTTCAATTAAGACTTGGAGAAGATTGCTCCAAAGAGAAAGGCATTACTGCTATGTCAGT
AAAAGAAGTCCTTCAAAGCTTAGTTGATGATGGTATGGTTGACTGTGAGAGGATCGGAACTTCTAATTAT
TATTGGGCTTTTCCAAGTAAAGCTTTCATGCAAGGAAACATAAGTTGGAGGTTCTGGAATCTCAGTTGT
CTGAGGGAAGTCAAAGCATGCAAGCCTACAGAAAAGCATTGAGAAAGCTAAAATTGGCCGATGTGAAAC
GGAAGAGCGAACCAGGCTAGCAAAGAGCTTTCTTCACTTCGAGACCAAAGGGAACAGCTAAAGGCAGAA
GTAGAAAATACAAAGACTGTGATCCGCAAGTTGTGGAAGAAATACGCCAAGCAAATAAAGTAGCCAAAG
AAGCTGCTAACAGATGGACTGATAACATATTTCGCAATAAAATCTTGGGCCAAAAGAAAATTTGGGTTTGA
AGAAAATAAAATTGATAGAACTTTTGAATTCCAGAAGACTTTGACTACATAGACTAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_032117 unedited
 AATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCTCGTGCCGAATTCGGCA
 CGAGGGTCGATTTCTGTGAAAACGCCCGGTTTCTGCCAAAGGGCAGGAGTCGCTGCTCT
 TGTGCCGGGTGCTGCTGGTTGTGTAGGGCGCTGTTGCTTTTTTAAGGACGCTCTGCACTG
 AATTAGGCTTCCCTCGTGGGTCATGATCAGTTAAGTCCTGTCAAAGAAAAAAGGACTGAGT
 GCAGAAGAAAAGAGAAGCTCGCATGATGGAATATTTTCTGAAACAAAAGATGATTTTCAA
 TTAAGAACTTGGAGAAGATTGCTCCCAAGAGAAAGGCATTACTGCTATGTCAGTAAAA
 GAAGTCCTTCAAAGCTTAGTTGATGATGGTATGGTTGACTGTGAGAGGATCGGAACCTTCT
 AATTATTATTGGGCTTTTCCAAGTAAAGCTCTTCATGCAAGGAAACATAAGTTGGAGGTT
 CTGGAATCTCAGTTGCTGAGGGAAAGTCAAAGCATGCAAGCCTACAGAAAAGCATTGAG
 AAAGCTAAAATTGGCCGATGTGAAACGGAAGAGCGAACCAGGCTAGCANAAGAGCTTTCT
 TCACTTCGAGACCAAAGGAACAGCTAAAGGCAGAAGTAGAAAATACANAGACTGTGATC
 CCGCAGTGTGGAAGAAAACGCCAGCAATAAAGTAGCCAAAGAGCTGCTAACAGATGGA
 CTGANTACATATTNCGCATANAATCTTGGGCCAAAAGAAAATTTGNGNNTTGAAGAAAAAN
 NTAATGATAGAACTTTTGGCATCCCAGAAGACTTTGACTACATAGACTAAATATCCAT
 GGTGGTGAAGATGTACAAGCTGTGATATGTAATTTAACTATTACTACTAGTGACTGA
 ATGTCGTTGGCTGAACTGNGTATCATTATTATGTAAAN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_032117 unedited
 GCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTGCATTTTACACTTTATTTAACAT
 TAATAAATGATAAACACAGTTACAGGCAAACGACAATTCAGTACACTTAGTTAGATAAT
 AGTTTAAAATTTACATATTCACAAGCTTGTACATCCTTACCACCATGGAATATTTTAGT
 CTATGTAGTCAAAGTCTTCTGGAATCCAAAAGTTCTATCAATTTATTTTCTTCAAACC
 CAAATTTTCTTTTGGCCCAAGATTTTATTGCGAATATGTTATCAGTCCATCTGTTAGCAG
 CTTCTTTGGCTACTTTATTTGCTTGGCGTATTTCTCCACAACCTGCGGATCACAGTCTT
 TGTATTTTCTACTTCTGCCTTTAGCTGTTCCCTTTGGTCTCGAAGTGAAGAAAGCTCTT
 TTGCTAGCCTGGTTCGCTCTTCCGTTTCACATCGGCCAATTTTAGCTTTCTCAATGCTTT
 TCTGTAGGCTTGCATGCTTTGACTTCCCTCAGACAACCTGAGATTCCAGAACCTCCAAC
 TATGTTTCTTGCATGAAGAGCTTTACTTTGGAAAGCCCCATAATAATTAGAAGTCCGA
 TCCTCTCACAGTCAACCATACCATCACTAAGCTTTGAAGGACTCCTTTTACTGACA
 TAGCAGTAATGCCTTTCTTTTGGGAAGCATCTTCTCCAAGCTTTTAATTGAAATCCAT
 CTTTTGTTTCAGAAATATTTCCATCATGCGAGTTCTTTTTCTTCTGCACTCAGCCCTTN
 TTCTTTGACAAGACTTACCTGACCCTGACCCCGAGGAAGCTTATTTTCATGCCGAACGTG
 CTTAAAAAGCAACAGGGCCCTACCAACCAGAAGAACCGGACCAAGAGCAGGGACTCCTGC
 CCTTTGGAGAACACGGGCGTTTCAAGAAATGAACCTCTGCCAAATTCGCCAGGCCTTT
 GCCAATTCGGGCGCTCTATAGGGATGTTTAAAATTCGGACGGTACTACCAGCCTGTGATT
 TAACTCCCGGCACCCTCGCCATTGTGT

Restriction Sites:

NotI-NotI

ACCN:

NM_032117

Insert Size:

1030 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).

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_032117.2](#), [NP_115493.1](#)

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]
Transcript Variant: This variant (1) encodes the longer isoform (1).