

## Product datasheet for **MC205266**

### 4930432K21Rik (NM\_029045) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	4930432K21Rik (NM_029045) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	4930432K21Rik
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC075658  
 GGTGTGGATGCTCCTGCTCTCCCGTCTGTGGCGCAGGTCTTCAGGAGCCGAGTCCACAGTGCAGGCCTC  
 AGGCCTTCCTGTCTCCCACCGCCAGTTTGCCACGCGGTCCCCGTGACTGCCTATGTTGGTATTTTCTCAG  
 AACGTTACGCCAGTGACCTAGGGCAGCTATTCCCACATCAGATCCAGGTTGACCTCGTCCCGACTAAGGAC  
 AGAGCAACTTCCATTACTGCTGTGGCCAGATTTCTCAGGAAAGATAAAATGAATAAGAAGAAACAGCG  
 GAACTCAGGGGTGCGCCTCCATCCCTCAAAGCCTTCTAAGAACCACGGCTGAGAGACTCCCATAGCTCC  
 ATGATGGTCCATTACACTACTCCAGAGAGTCGGAAGACAGCTCAGAACCCTGCTCCTTCTGTAGAGCTAG  
 GCGGGGAGGAACCACTACACGAAGCTTTTCTAGCTGCCAGTGGAGGACACAGGAGCTGCCTCTGACCTCGC  
 AGGATCACCCAAAGAGCTGGTCCCCCTGCCTCCTTCCCAGAACTCAGTTGGGAAGTTTGTCCCTCAGTTT  
 GCCAAACCAAGAAAGACAGTAAGTAGAAAAGCCAAAGGCATGGGAAGAGGATCTAGAGGGTGCACCAACA  
 GCCAGGAAACAAGGCCAGAGCTGGGAGCCCTCAAAGCAGCCAGCCAGCCACAGAGAGAGTCCCTGAGGTT  
 CCCTCCCACATGACATCAGACCAGAAGTCCAGACACAGCCAGATGGAACCTTTCAAAGGAGAGGACAATC  
 TCACTAGATAATAGAAGCCTGGGAACAATGGTTTTGAGATGGCCACAGTTCAAGACAGTAGTAGCCCC  
 TGTCAGATGCTGCTGCTGAAGGCAGGGAGGCAGACAGCAGAGACCCACAGGAAAGAGATGCCAAGGAGG  
 GGAAGCAGGGGCCAGCATTCTGGGAACCCAGGAAGGAGAGGACATCCTCTACACATCAGCATTAGCT  
 CCTGCCTCAGAGCCACCTGGTCTGTGGCTCAAGACCTCTCTGTCCCACATATACTCTCAGCAGCACAG  
 CTGCAGCACCCAGCTCCACCAGCCAGCAGATGCCTCTTATGGACACTGTCATTACAGAAGCGAGCTT  
 AGATCCCTCTGTGCTGCAACAGAGTGTCCACAGGTGGCCAAGCTGCTGGGCTCTCTGGATGAGCAGATC  
 CCTGATGGAGGCTGCATTGGAACCTGTGCTGAGCTCCACACCTCTTGTGAGGAGACCACAGCAGGCAGAG  
 AGGAGGCCAGATGGGAAGAGAGGTGTATGGTGATACCTGGCAAGCTTCACTGAGACAGAGCCTGAGAA  
 ACAAGAGCCCGTGACGGAAGCTGGAGATCCGGCCATATAGCCCAAGAAATGGATCCAGTGGTCAAGACC  
 AAGGACTCTGGCTCTGATGAGCAGTCCGAGGGATATAGGAATGCTGCCTTTACCAGCACAGTCCATGA  
 ATCAGATGTTGGTAGAGTTACGTGGCCTAACTTGTGATCAAGACTTAGAGGGCCTCAGTACCCCTCATA  
 CTCTCTCAGCTAGAGCACACTTGTGCAGCTAGTGACCCTCCCCAGAGCACCAAGGACTGTCACAGCAGC  
 CCAGGCATTCTGTACACCTGGCAGCTCCCTGTCCCAGAGACCAGGCTGCATGGCAGGAGTCCCTAGCAA  
 TGGAACTAGACTTCTGCCTGACAGCCAGATACAGGATGCCCTGGATGCCACTAACATGGAGCAGGGTTT  
 TCCTTCAGGGAGTATGCCAGACCTTGGCTGGCCTGTCCCTAGCTCACAGTCCATCGGAGGATCCCCAAAG  
 GCAGTCACCAAACCTCAATCCAGATCCCATGTGGAACCTGGGCCAGGAGACCTACAGGATGCAGGATG  
 CAACAGACACAGTGCAGGCCTCGTGGTGGAGCTCTCCGGTCTGAACCGGCTGATTATGAGTACCCACCG  
 GGACCTGGAGGCCTTCAAGCGCAGGAAGACCAAGTCTCTGCCTTACCTGACAAAGGGGTTGGGGAGCCTT  
 CCTAGAGGGGATCAGAGCTGGAGGGACTTGAATCTGCTGCAGCCTGTAGGGGTCGGCTTACCATGGCTC  
 CAGATGCAGGAGGCTGAGGGTGGCCACTTGGCCAGGATCACTATTGCTCCCATGCAACAGGGTTGCCTGA  
 GCTTTAAGGAAGTCACCTGACAGAGCATGGCCCTACTCCCAGATGCTCATCCCAGTTTGGAGCATGCAGGAG  
 TCTGAGCTGAGCTGCAGTTGTCGTTGAGTTGTTTCTGGAGGAGAGAGGTGCCCTCTGTCTGCCTATCCT  
 TCCCCATGCTCTCTGTTACATTTGGGAAGGTGGGGAATAAATGATGCAGTCATGAAAAAAAAAAAAAAAA  
 AAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Ascl-NotI

**ACCN:** NM\_029045

**Insert Size:** 1803 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:** [BC075658](#), [AAH75658](#)

**RefSeq Size:** 2400 bp

**RefSeq ORF:** 1803 bp

**Locus ID:** 74666

**UniProt ID:** [Q6DIA7](#)

**Cytogenetics:** 8 C2

**Gene Summary:** Meiotic recombination factor component of recombination bridges involved in meiotic double-strand break repair (PubMed:32463460, PubMed:32460033). Modulates the localization of recombinases DMC1:RAD51 to meiotic double-strand break (DSB) sites through the interaction with and stabilization of the BRCA2:HSF2BP complex during meiotic recombination (PubMed:32460033, PubMed:32463460). Indispensable for the DSB repair, homologous synapsis, and crossover formation that are needed for progression past metaphase I, is essential for spermatogenesis and male fertility (PubMed:32463460, PubMed:32460033).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.