

## Product datasheet for **MR214541**

### 4930432K21Rik (NM\_001163752) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	4930432K21Rik (NM_001163752) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	4930432K21Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>MR214541 representing NM\_001163752  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAATAAGAAGAAACAGCGGAAGCTCAGGGGTCGGCTCCATCCCTCAAAGCCTTCTAAGAACCCACGGC  
 TGAGAGACTCCCAGAGCTCCATGATGGTCCATTACACTACTCCAGAGAGTCGGAAGACAGCTCAGAACC  
 TGCTCCTTCTGTAGAGCTAGGCGGGGAGGAACCTACACGAAGCTTTCAGCTGCCAGTGGAGGACACA  
 GGAGCTGCCTCTGACCTCGCAGGATCACCCAAAGAGCTGGTCCCCTGCCTCCTCCAGGAAACAAGGC  
 CAGAGCTGGGAGCCCTCAAAGCAGCCAGCCAGCCACAGAGAGATCCCTGAGGTTCCCTCCCATGACAT  
 CAGACCAGAAGTCCAGACACAGCCAGATGGAACCTTTCAAAGGAGAGGACAATCTCACTAGATAATAGA  
 AGCCTGGGAACAATGGTTTGGATGGCCACAGTTCAAGACAGTAGTAGCCCCCTGTAGATGCTGCTG  
 CTGAAGGCAGGGAGGCAGACAGCAGAGACCCACAGGAAAGAGATGCCAAGGAGGGGAAGCAGGGGCCCA  
 GCATTCTGGGAAACCCAGGAAGGAGAGGACATCCTCTACACATCAGCATTAGCTCCTGCCTCAGAGCCC  
 ACCTGGTCTGTGGCTCAAGACCTCTGTCCCCACATATACTCTCAGCAGCACAGCTGCAGCACCCAGCT  
 CCACCAGCCCAGCAGATGCCTCTTATGGACTGTCTTACAGAAGTGAAGTCTAGATCCCTCTGTGCT  
 GCAACAGAGTGTCCACAGGTGGCCAAGCTGTGGGCTCTCTGGATGAGCAGATCCCTGATGGAGGCTGC  
 ATTGGAAGTCTGCTGAGCTCCACACCTCTTGTGAGGAGACCACAGCAGGAGAGAGGAGGCCAGATGGG  
 AAGAGAGGTGTGATGGTGTACCTGGCAAGCTTCACTGAGACAGAGCCTGAGAAACAAGAGCCCGTGAC  
 GGAAGCTGGAGATTCCGGCCATATAGCCCAAGAAATGGATCCAGTGGTCAAGACCAAGGACTCTGGCTCT  
 GATGAGCAGTCGCCAGGAGATATAGGAATGTGCCTTTACCAGCACAGTCCATGAATCAGATGTTGGTAG  
 AGTTACGTGGCCTAACTTGTGATCAAGACTTAGAGGGCCTCAGTACCCCTCATACCTCCTCAGCTAGTA  
 GCACACTTGTGCAGCTAGTGACCCTCCCCAGAGCACCAAGGACTGTCACAGCAGCCCAGGCATTCCCTGTA  
 CACCTGGCAGCTCCCTGTCCCAGAGACCAGGCTGCATGGCAGGAGTCTCAGCAATGGAAGTACTTCC  
 TGCTGACAGCCAGATACAGGATGCCCTGGATGCCACTAACATGGAGCAGGGTTTTCTTCCAGGGAGTAT  
 GCCAGACCTTGGCTGGCCTGTCCCTAGCTCACAGTCCATCGGAGGATCCCCAAAGGCAGTACCAAACCT  
 CAATCCAGATCCCATGTGAAACCTGGGCCAGGAGACCTACAGGATGCAGGATGCAACAGACACAGTGC  
 GAGGCCTCGTGGTGGAGCTCTCCGGTCTGAACCGGCTGATTATGAGTACCCACCGGACCTGGAGGCCTT  
 CAAGCGCAGGAAGACCAAGTCTCTGCCTTACTGACAAAGGGGTGGGGAGCCTCTAGAGGGGATCAG  
 AGCTGGAGGGACTTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR214541 representing NM\_001163752  
 Red=Cloning site Green=Tags(s)

MNKKKQRNSGVGLHPSKPSKNPRLRDSQSSMMVHSHYSRESEDSSEPAPSVELGGEEPLHEAFSCPVEDT  
 GAASDLAGSPKELVPLPPSQETRPELGALKAASQPQRESLRFPPHIRPEVQTQPDGTL SKERTISLDNR  
 SLGNNGFEMATVQDSSSPLSDAAAEGREADSRDPQERDAQGGEAGA QHSGEPQEGEDILYTSALAPASEP  
 TWSVAQDL SVPTYTL SSTAAPSSTSPADASLMDTVITEVSLDPSVLQQSAPQVAKLLGSLDEQIPDGGC  
 IGTLLSSTPLAEETTAGREEARWEERCHGDTLASFTETEPEKQEPVTEAGDSGHI AQEMDPVVKTKDSGS  
 DEQSPGDIGMLPLPAQSMNQLVELRGLTCDQDLEGLSTPHTSSQLEHTCAASDPQSTKDCHSSPGIPV  
 HLAAPCPRDQAAWQESSAMELDFLPDSQIQDALDATNMEQGFPSGMPDLGWPVPSSQSIGGSPKAVTKP  
 QSRSHVETWAQETYRMQDATDTVRGLVVELSGLNRLIMSTHRDLEAFKRRKTKSLPYLTKGLGSLPRGDQ  
 SWRDL

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

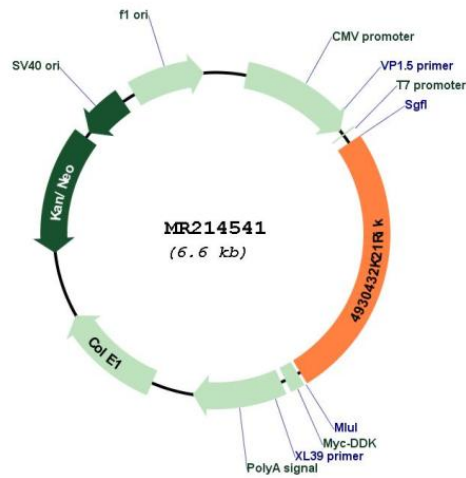
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM\_001163752

<b>ORF Size:</b>	1695 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001163752.1</a> , <a href="#">NP_001157224.1</a>
<b>RefSeq Size:</b>	2389 bp
<b>RefSeq ORF:</b>	1698 bp
<b>Locus ID:</b>	74666
<b>UniProt ID:</b>	<a href="#">Q6DIA7</a>
<b>Cytogenetics:</b>	8 C2
<b>MW:</b>	61 kDa
<b>Gene Summary:</b>	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]