

## Product datasheet for MR215013

### 1700028K03Rik (NM\_175241) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** 1700028K03Rik (NM\_175241) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** 1700028K03Rik  
**Synonyms:** MGC117884  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR215013 representing NM\_175241  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCAATGGATGAGCGTAGAGGAAAAGAAAGAGTACAGTGGACAACCACCATTATTATCAGCTCATCTC  
 TTAAGAGTTACGAAATTGCAACTGCCCTAGAAAATCGAAGCCACAAGGTTTCGGTATTCTGATACACTGGA  
 AAGTGGATCGATTGTATTTCTCTGTCTGGAGTTGCATTCTTGTGATGGATGCTAAGGAGTGTATGACA  
 TCGGCTGAGGAAATATTTGTAACCAAAATTGAGAAGTTTATTAACATTCACAAAATAGTTTCTTGGTTC  
 TATTTGCTCCACTCCATGGGCCTGAAGAATGGAGTCTCATGTTCCAGGATACATCAGAGGTTCTTGGGCGAG  
 TAACCTACGAATACTTCTGTACACAACACAGTAAACGCTCTTGACCTTATGTGCACTATAGCCAAGACT  
 ACGTCCAAACCACACATAGACAGCATCTGCTACAGAATGATAACAATAAAGCGTACATCATAGAGCAGA  
 GCCCTGTCTGGAGAACAACACTTCAAAGATAAAAAGGTAGACTT

**ACGCGT**ACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR215013 representing NM\_175241  
 Red=Cloning site Green=Tags(s)

MAMDERRGKERVQWTTTTIISSSLKSYEIATALENRSHKVRYSDTLESGSIVFSLSGVAFLLMDAKECMT  
 SAEEIFVTKIEKFINIHQNSFLVLFAPLHGPEEWSLMFRIHQRFGLGSLRILPVHNTVNALDLMCTIAKT  
 TSKPHIDSICYRMITTKAYIEQSPVWRTLQKIKGRL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

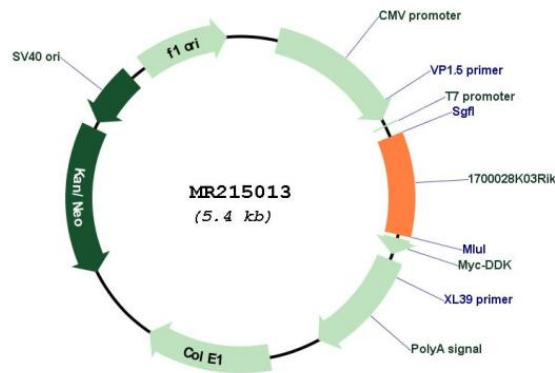
**Restriction Sites:** SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM\_175241

ORF Size: 531 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.

<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>	<u><a href="#">NM_175241.1</a></u> , <u><a href="#">NP_780450.1</a></u>
<b>RefSeq Size:</b>	3096 bp
<b>RefSeq ORF:</b>	534 bp
<b>Locus ID:</b>	76421
<b>Cytogenetics:</b>	5 F
<b>MW:</b>	20.8 kDa
<b>Gene Summary:</b>	Plays a key role in reinforcing the integrity of the central element of the synaptonemal complex (SC) thereby stabilizing SC, ensuring progression of meiotic prophase I in male and female germ cells (PubMed:30949703). Promotes homologous recombination and crossing-over in meiotic prophase I via its association with SHOC1 (PubMed:30746471). Required for the localization of TEX11 and MSH4 to recombination intermediates (PubMed:30746471). [UniProtKB/Swiss-Prot Function]