

## Product datasheet for MC211735

### 1700028K03Rik (NM\_175241) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** 1700028K03Rik (NM\_175241) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** 1700028K03Rik  
**Synonyms:** MGC117884  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC211735 representing NM\_175241  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAATGGATGAGCGTAGAGGAAAAGAAAGAGTACAGTGGACAACCACCATTATTATCAGCTCATCTC  
TTAAGAGTTACGAAATTGCAACTGCCCTAGAAAATCGAAGCCACAAGGTTCCGGTATTCTGATACACTGGA  
AAGTGGATCGATTGTATTTCTCTGTCTGGAGTTGCATTCTTGTGATGGATGCTAAGGAGTGTATGACA  
TCGGCTGAGGAAATATTTGTAACCAAAATTGAGAAGTTTATTAACATTCACCAAAATAGTTTCTTGGTTC  
TATTTGCTCCACTCCATGGGCCTGAAGAATGGAGTCTCATGTTCCAGGATACATCAGAGGTTCTTGGGCGAG  
TACTTACGAATACTTCTGTACACAACACAGTAAACGCTCTTGACCTTATGTGCACTATAGCCAAGACT  
ACGTCCAAACCACACATAGACAGCATCTGCTACAGAATGATAACAACCTAAAGCGTACATCATAGAGCAGA  
GCCCTGTCTGGAGAACAACCTTCAAAGATAAAAAGGTAGACTT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_175241

**Insert Size:** 534 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).



[View online »](#)

<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>NM_175241.1, NP_780450.1</u>
<b>RefSeq Size:</b>	3096 bp
<b>RefSeq ORF:</b>	534 bp
<b>Locus ID:</b>	76421
<b>Cytogenetics:</b>	5 F
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) has an alternate 3' sequence, as compared to variant 1. The resulting isoform (2) is shorter and has a different C-terminus, as compared to isoform 1.</p> <p>Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>