

Product datasheet for **MG215013**

1700028K03Rik (NM_175241) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: 1700028K03Rik (NM_175241) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: 1700028K03Rik
Synonyms: MGC117884
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG215013 representing NM_175241
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAATGGATGAGCGTAGAGGAAAAGAAAGAGTACAGTGGACAACCACCATTATTATCAGCTCATCTC
TTAAGAGTTACGAAATTGCAACTGCCCTAGAAAATCGAAGCCACAAGGTTTCGGTATTCTGATACACTGGA
AAGTGGATCGATTGTATTTCTCTGTCTGGAGTTGCATCTTGTTGATGGATGCTAAGGAGTGTATGACA
TCGGCTGAGGAAATATTTGTAACCAAAATTGAGAAGTTTATTAACATTCACCAAAATAGTTTCTGGTTC
TATTTGCTCCACTCCATGGCCTGAAGAATGGAGTCTCATGTTTCAGGATACATCAGAGGTTCTTGGGCAG
TAACCTACGAATACTTCCTGTACACAACACAGTAAACGCTCTTGACCTTATGTGCACTATAGCCAAGACT
ACGTCCAACACACATAGACAGCATCTGCTACAGAATGATAACAACAAAGCGTACATCATAGAGCAGA
GCCCTGTCTGGAGAACACTTCAAAAAGATAAAAAGGTAGACTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG215013 representing NM_175241
Red=Cloning site Green=Tags(s)

MAMDERRGKERVQWTTTTIISSSLKSYEIATALENRSHKVRYSDTLESGSIVFSLSGVAFLLMDAKECMT
SAEEIFVTKIEKFINIHQNSFLVLFAPLHGPEEWSLMFRIHQRFGLSNLRILPVHNTVNALDLMCTIAKT
TSKPHIDSICYRMITTKAYIEQSPVWRTLQKIKGRL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

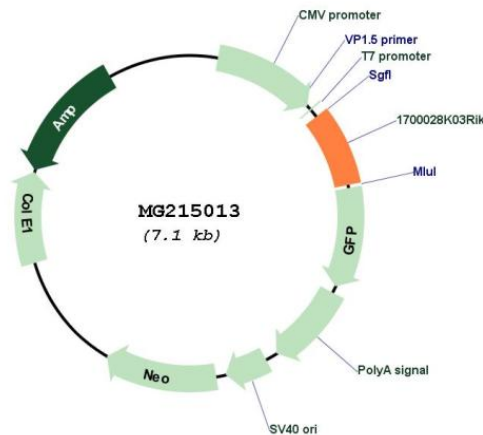


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Cloning Scheme:



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.

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:	<ol style="list-style-type: none">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:	<u>NM_175241.1, NP_780450.1</u>
RefSeq Size:	3096 bp
RefSeq ORF:	534 bp
Locus ID:	76421
Cytogenetics:	5 F
Gene Summary:	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]