

## Product datasheet for **MR214815**

### Gm4305 (NM\_001166639) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gm4305 (NM_001166639) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gm4305
Synonyms:	100043235
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR214815 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGACAAAATGGACATGTCATTGGAAGACATCATTAAAGCTGAACAAGATGCAGCAAGGACGTCGTG  
ACAGGCCGTGATCCCGGGTGAAGCGAGGCACTGGGCCTAAGAGGTATCGGCCAGCTTTCACCCATGGTGG  
AAGGAACAGGCTGGCACCATACTGCAGACCAAAACAATCCAGACAAGTGGCAGCATGACCTATTCATT  
GGAGGCTTCAGGGGTCAAACCACGTGGATACTGGTGGGAAGCTGTTCTGTCAAATCTGCACTTCGGAG  
TGTCAGATGCTGATATTCAGCTACTCTTTGCTGAATTTGGAACGTTGAAAAATCTGCTGTGCACTATGA  
TCGCTGTGGACGAAGTTTAGGGACAGCAGATGTGCACTTTGAAAGGAAAGCAGATGCCCTGAAGGCTATG  
AGAGAGTACAATGGCGCCCTTTGGATGGCCGCCCTATGAACATCCACCTTGTCACCTTCACAGATTGATA  
GACAAGGAAGACCTGCACTAAACAGTGATAAGGGTGGCATGACAAGAAACCCTGGCTCTGGAGTATTAAG  
TGGTGGAGGCCAACAGAGATGGACACTTGGAGGCAGCCAGGGAAGCGGGAGAGGCCACCAGCAGGAACTCA  
AAACTGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAAGAGGAGCAGAAGCACCAGAAGCAGCAACAGCAGA  
AGCAGCAGCAACAGCAGCAGAAGCAGGGACAGAATCACCAGCACCAGCAGCAGCAGAAGGAGCAGCAGCA  
GCAACAGCAGCAGAAGGAACTGCAGCAGCTATCTGTAGAGGAGCTGGACGCCAGCTGGATTATTATCAG  
GATATGATGGACACCAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR214815 protein sequence  
Red=Cloning site Green=Tags(s)

MADKMDMSLEDI IKLNKMQGRRDRPDSRVKRGTPGPKRYRPAFTHGGRNRLAPYCRPKQLPDKWQHDLFI  
GGFRGQNHVDTTGGKLF LSNLHFGVSDADIQLLFAEFGTLKKS AVHYDRCGRSLGT AHVHFERKADALKAM  
REYNGAPLDGRPMNIHL VTSQIDRQGRPALNSDKGGMTRNPGSGVLSGGGTKRWTLGGSQSGRGT SRNS  
KLQQQQQQQQQQEEQKHQKQQQQKQQQQKQGGQNHQHQQQQKEQQQQQQKELQQLSVEELDAQLDYYQ  
DMMDTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001166639

**ORF Size:** 861 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:**

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:** NM\_001166639.1, NP\_001160111.1

**RefSeq Size:** 910 bp

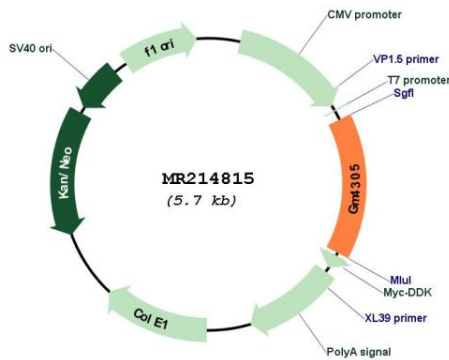
**RefSeq ORF:** 870 bp

**Locus ID:** 100043235

**Cytogenetics:** 10

**MW:** 32.7 kDa

**Product images:**



Circular map for MR214815