

Product datasheet for **MR221753**

Gm14391 (NM_001099308) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gm14391 (NM_001099308) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gm14391
Synonyms:	OTTMUSG00000016543
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR221753 representing NM_001099308, **codon optimized**.
Due to the complexity of NM_001099308, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGATCTTGTCACTTACGACGATGTCCAAGTTAATTTCACCAGGACGAATGGGCCCTGTTGGATCCAT
 CTCAGAAAAGTCTTTATAAGGACGTCATGCTCGAAACATACAGAACTTGACAGCCATCGGCTATATCTG
 GGAAGAACACACTATCGAGGATCATTTCCAACGTCCCGCTCCCATGGGAGGCACGAAAGATCTTGCTCT
 GCCGAGCAGCCATCTGAATTCATTCACTGCGGCAAGGCCCTTGGCTTATGAGTCCGGTTCGACAGCGCCACC
 AGATCAAGCACAACGGAGAGAAGCATCATGACTGCAATCAGTGTGGAAAGGATTTCCGGAGTGGAAATGT
 ACTGCAGATCCATAAGCGCACCCACCCGGAGAAAAGCCATACGATTGTAACAGTGTGGCAAGGTCTTC
 GCGAGGTCTTGTACCTTCAAATTCACAACAGAACCCACGAGGGGAGAAAACAGTATGAATGTAACCCAGT
 GTGGGAAGGCCCTGAAACGGCGAAGCGACTTGCAAATTCACAAGCGGACTCATACTGGCGAGAAGCCTTA
 TGAGTGAACCAATGTGGAAAAGCTTTTGTAGCTCCGGCGACCTCAACAGCACAAGAGGACACACACC
 GGTGAGAAGCCCTACGAGTGTAGCAGTGTGGTAAGGCCCTTCCGAGTGTCTCACATCTGAGAATACACA
 AGCGGACACACAGGCGAGAAGCCTTATGAGTGAAGCAATGCGGAAAGGCTTTGCTCACAGTTCCCA
 CCTTCACAAGCATGAAAGGACTCACACCGGCGACAAACCCTATGAATGCAATCAATGCGGAAAGCTTTTC
 CGGGTGATCTATACACTGCAGATGCATAAAAGGACACACACTGGCGACAACCCTATGAGTGAATCAGT
 GCGGCAAGGCATTGCTGTTATATACACTCCAGATGCACAAGAGGACACACCCGGTGAACAAGCCCTA
 CGAATGAATCAGTGGGAAAGGCCCTTCGCGGTGATCTACACTTTGCAACGCCACAAGCAGACTCACACT
 GGTGAGAAGCCATAACAAGTGAACAGTGGGAAAGGCCCTTACCCTGCTTGTCTATCTCCGGATACACA
 AAAGAACTCACACTGGAGAAAACCTTACGAATGCAACCAATGTGGTAAGGCCCTTCGCTAGAAGCGGTGA
 CCTGCAGAAAACAAGAGAACACACCCGGTGAAGCCATATGAGTGAACAGTGGGCAAGGCTTTT
 GCCCAGTCTCACCTCCATAAACACGAGCGCACACATACTGGAGATAAGCCCTATGAATGTAATCAGT
 GCGGCAAAGCCTTCGCCGAGTCTAGCACCTGCAGATACATAATCGAACACATACCGGTGAGAAGCCATA
 TGAGTGAACCAAGTGGGCAAGGCATTCATCACCGCGGGTACTGCAGATACACAAGAGGACCCATACT
 GGGGAGAAGCCATATGAATGCAACAATGCGGAAAAGCGTTTGGCTCCTCTGATCTTCAGAAGCACA
 AGCGGACCCACAGTGGAGCCAAACCCTATGAGTGAAGCAATGTGGAAAAGCCTTCGCCAGTCAAGCCA
 CTTGCGCATACATAAGCAGACACACACTGGGCAAGGCCCTTATGAGTGAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221753 representing NM_001099308
 Red=Cloning site Green=Tags(s)

MDLVTYDDVQVNFQDEWALLDPSQKSLYKDVMLETYRNLTAIGYIWEHTIEDHFQTSRSHGRHERSCS
 AEQPSEFIQCGKAFAYESGRQRHQIKHNGEKHHDCNQCGKDFRTWNVLQIHKRTHTEKPYDCKQCGKVF
 ARSCHLQIHNRTHAGEKQYECNQCGKALKRRSDLQIHKRTHTEKPYECNQCGKAFASSGDLQQHKRTHTE
 GEKPYECKQCGKAFSECSHLRIHKRTHTEKPYECKQCGKAFHSSHLHKHERTHTGDKPYECNQCGKAF
 AVIYTLQMHKRTHTEKPYECNQCGKAFVIYTLQMHKRTHTEKPYECNQCGKAFVIYTLQRHKQTHTE
 GEKPYKCKQCGKAFTRSCHLRIHKRTHTEKPYECNQCGKAFARSGDLQKHKRTHTEKPYECKQCGKAF
 AHSSHLHKHERTHTGDKPYECNQCGKAFESSTLQIHNRTHTGEKPYECNQCGKAFITRRVLQIHKRTHTE
 GEKPYECKQCGKAFASSDLQKHKRTHSGAKPYECKQCGKAFQSSHLRIHKQTHTEKPYECN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9079_b02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001099308

ORF Size: 1662 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_001099308.1](#), [NM_001099308.2](#), [NP_001092778.1](#)

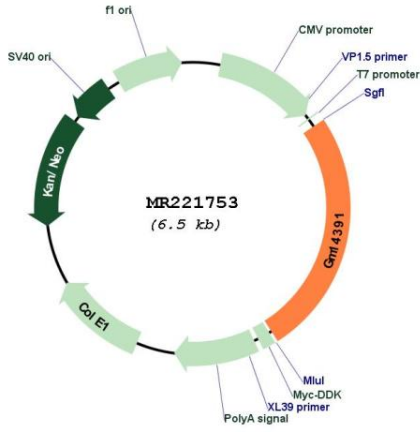
RefSeq Size: 2496 bp

RefSeq ORF: 1665 bp

Locus ID: 665001

Cytogenetics: 2
 MW: 64.1 kDa

Product images:



Circular map for MR221753