

Product datasheet for **MR221340**

Gm4214 (NM_001167164) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Gm4214
Synonyms:	100043079; Vmn1r161
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >MR221340 representing NM_001167164
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTCTGTTCTGGTAAATCCCTGAAAACCACTGAGGAAGTGGCTCTTCAGATCATTTTGCTTTGCCAGT
TTGGGGTTGGGACCATGGCCAATGTCTTCTGTTGTCCATAATTTCTCTCCAGTCTTGACTGGTTCTAA
ACAGAGGCCAGACAGGTGATTTTAAGCCACATGGCTGTGGCAATGCCTTGACTCTATTCCTCACTGTA
TTTCCAACAACATGATGGCTTTTGCTCCAAGAAATCCTCCAAGTGAATGAAATTAATTTCT
TCAGTCACCTGGTGACAAGAAGCACAAATTTGTGTTCCACCTGTGCTGAGTATCCATCAGTTTGTCT
TCTGGTTCTATTAGTAGAGGTAACTTCTACTCAGAGCAAGTGTCCAAATTTGGTGAGTTATTCTTGT
TATGGTTGTGGTTTTTCAGTGTCTTAAGTAACATCCACATTCCAATTAAGGTCACTGGTCCACAGATAA
CAGACAATAACACTGACTCTAAAAGCAAGTTTTCTGTTCCACTTCTGGATTCACTGTAAGAATTGTCTT
CTTGACAGTTTTCCCATGATGCCACATTCATGAGCATCATGGTCTGGACCAAGTGTCTCCATGGTACTTCTC
CTCCATAGACATCGCCAGCAATGCAGCACATCCTCACTCCCAATCAGGACGCCAGAGGCCAAGCTGAGT
CCAGAGCAACCCAACTATCCTGATAGTGGTGGTCACATTTGTAGCTTTTATCTTCTAAATTTTATTTG
TATCATCTTTTACATCTTTTATACATTATAATTTATTCATACGGCTTCTTGGTGAGATTTTGGCTGCA
GGTTTCCCTACTATTTCTCCCTTACTGTTGATCTTCAGAGATCCTAAGAATCCTGTCTTGAGCTCTCC
ACTGTTTTAAACCAGAGTCGCTACAAAATTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>MR221340 representing NM_001167164

Red=Cloning site Green=Tags(s)

MSVRGKSLKTTEEVALQIILLCQFGVGTMANVFLFVHNFSPLVTGSKQRPRQVILSHMAVANALTLFTV
FPNNMAFAPRNPTELKCKLKFFSHLVTRSTNLCSTCVLSIHQFVILVPISRGKLLLRASVNLVSYSC
YGCWFFSVLSNIHIPIKVTGPQITDNTDSKSKFFCSTSGFTVRIVFLQFSDATFMSIMVWTSVSMVLL
LHRHRQMQHILTPNQDARGQAESRATQTILIVVTVFSFYLLNFICIIFFHTFFIHYNLFIRLLGEILAA
GFPTISPLLLIFRDPKNPCLELFHCFKPESLQNL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9088_d08.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_001167164

ORF Size:

942 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001167164.1](#), [NP_001160636.1](#)

RefSeq Size: 945 bp

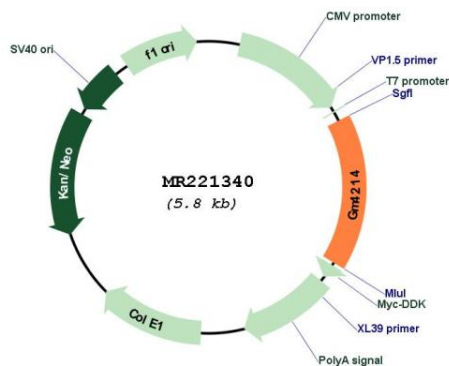
RefSeq ORF: 945 bp

Locus ID: 100043079

Cytogenetics: 7

MW: 35.6 kDa

Product images:



Circular map for MR221340