

Product datasheet for **RR205505**

G4 (NM_001003975) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	G4 (NM_001003975) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	G4
Synonyms:	MGC124525
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR205505 representing NM_001003975 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTCTTCGACGGCTTGGTGGCTGGCTGCCGCGACCTTGGGTCGAAAGAAATCAACAAAGACTGACT
TGCCTGCCCCAGAACCCAGATGGGTGGACAGCTCCCGGAGAACTCAGGGAGTGACTGGGACAGTGCTCC
AGAGACCATGGGAGATGTGGACCTCTGAAGACCAAGGATTCAGGAACACGGAGGCCCCCCAGGCTGCT
CCAGAGTCTAGCAGGGACACCAGAGTGTATCAGCTGGGAGTAAAAGAATGGATTCCTCAAGAAGGACA
AGGCTGCTTCTGCCATTCAAGAGTCTGCAAGACTGGAGACTGGAGAGCCGTTCCAAACTGGACTTGA
TCCTGTGGATTACGTTGGCATGAAGAACCTTGGAGTGTCCCCCAAGGGAGGTTAGGCACCACTGGGCCA
GAAGCCCTACTGGAGAAACCTGGTCGACGTCAGAAGCTGTACGGTGGCTCCGGGGGGAACCAAGGGGCTC
CCTCACATTACCTGCAGGACCCAGAGGAGTATCTGCAGATCTCTACCAACTTGACCCTGCACCTGCTGGA
GCTGCTTGCCCTCAGCCTTGCTGGCTCTGTGCTCGAGGCCACTCCGAGCCATCTTGATGCTTTGGGCCTT
CGGGGACCTGTGGGCCTCTGGCTACACGGGCTACTGTGTTCTGGCTGCCCTACACGGGCTCCATGCTG
TGCTGAGCCTGCTTACTGCCACCCCTGCATTTTGCCTGCTCTTGGTCTGTTGCAGGCCCTAGTGCT
GGCTGTACGCTCCGGGAACCTGTTGAGGATGAGGAGACCGCTGACTGGGAGAGTGAGGGGCAGGGGAAG
GAGGCCAAGGAGCAGACAGAAGGTCCAGGAAGGCGTTG

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR205505 representing NM_001003975
 Red=Cloning site Green=Tags(s)

MFLRRLGGWLPRPWGRKKSTKTDLPAPEPRWVDSSPENS GSDWDSAPETMGDVGPLKTKDSGTRPPQAA
 PESSRDTRVYQLGSKRMDSLKKDKAASAIQESARLETGGAVPKLDLPVDSGGMKNLGVSPQGRLGTTGP
 EALLEKPGRRQKLLRWLRGEPGAPSHYLDPEEYLQISTNLTLLLELLASALLALCSRPLRAILDALGL
 RGPVGLWLHGLLCFLAALHGLHAVLSLLTAHPLHFACLFGLLQALVLAVSLREPVEDEETADWESEGQ GK
 EAKEQTEGPGRAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001003975

ORF Size: 879 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_001003975.3](#), [NP_001003975.1](#)

RefSeq Size: 1994 bp

RefSeq ORF: 882 bp

Locus ID: 406868

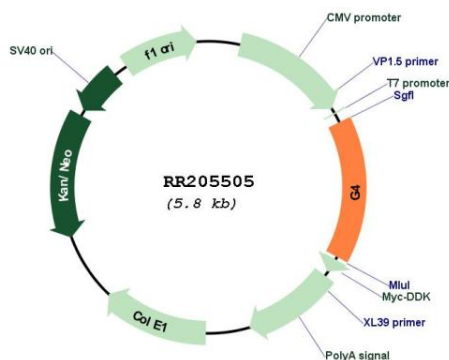
UniProt ID: [Q6MG51](#)

Cytogenetics: 20p12

MW: 31.8 kDa

Gene Summary: predicted gene deduced from the genomic sequence of the major histocompatibility complex (MHC); function unknown [RGD, Feb 2006]

Product images:



Circular map for RR205505