

Product datasheet for **RR213014**

Gc (NM_012564) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gc (NM_012564) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gc
Synonyms:	DBP; DBP02; VDB; Vdbp
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR213014 representing NM_012564
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAAGAGGGTTCTGTTCTCCTGCTGGCCTTAGCCTTTGGGCATGCCCTAGAGAGAGGCCGAGATTATG
 AGAAGGATAAAGTTTGCCAGGAAGCTCTCCACGCTGGGAAAGATGACTTCAGATCTCTATCACTAATCCT
 ATACAGCAGGAAGTTTCCAGTAGCACCTTTGAACAGGTCAGTCAGCTTGTGAAGGAAGTTGTCTCCTTA
 ACTGAGGAATGCTGTGCTGAGGGAGCAGATCCCAACTGCTATGACACCAGGACTTCAGAGCTGTCTATTA
 AGTCTGTGAAAGTGACGCCCTTTCCCGTTCACCCCGGACTTCCGAGTGTTCACGAAGGAGGGGCT
 AGAGCGGAAACTCTGCATGGCTGCCCTCAGTCACCAGCCACAGGAATTTCCCGCTATGTGGAGCCGACG
 AATGATGAGATCTGTGAGGCGTTCAGGAAGGATCCAAAGGGATTGCCGATCAGTTTCTATTGGAATATT
 CCAGCAATTACGACAAGCTCCTCTGCCACTTTTAGTTGGTTACACCAAGAGTTATCTCTATGGTTGG
 CTCTGCTGTACTTCTGCAAAACCAACTGTGTGCTTTTTGAAGGAGAGACTCCAGATGAAACAGTTATCA
 TTCTCACCAGTATGTCAAACAGAGTCTGCTCACAAATATGCTGCATATGGAAAGGAAAAATCAAGGATGA
 GCCATCTCATAAACTAGCCAAAAAGTACCAACTGCTAACCTGGAGGATGTTCTGCCACTCGCTGAAGA
 CCTTACTGAAATCCTGTCCAGATGTTGTAAGTCTACCTCAGAGGACTGCATGGCCAGAGAGCTGCCTGAA
 CACACATTAATACTGTGGAACTTATCCAAAAAGAAATCAAAGTTTGAAGAGTGTGTTACGAAACAA
 CACCCATGGGCATTTTTATGTGTAGTACTTTCATGCCAACTGCTGAACCACTTCAATTGCCAGCCATCAA
 GCTGCCAACCAAGCAAGCTCTGTGGTCAGAGTGCCACACAAGCCATGGACCAGTATACATTTGAACTA
 AGCAGAAGGACCCAGGTTCCAGAAGTGTTCCTCAGCAAAGTTCTGGATACGACCCGAAAACCCCTTAGGG
 AATGCTGCGACACTCAGGACTCTGTCTCTGTTTCAGCACTCAGAGTCCCCTGATGAAGAGGCAACTAA
 TTCTTTTATTGAAAAGGGCAAGAAATGTGTGCAGATTATCCGAGAACACATTTACTGAGTACAAGAAA
 AAATTGGCGGAACGACTGAGGACAAAAATGCCAATGCCTCCCCGGAAGAGCTGGCAGACATGGTGCCA
 AGCACTCAGACTTTGCCTCCAAGTGTCTCCATAAACTCTCTCCACGCTACTGTAGCTCACAGATTGA
 TGCAGAAATGAGAGACATCTGCAGTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR213014 representing NM_012564
 Red=Cloning site Green=Tags(s)

MKRVLVLLLALAFGHALERGRDYEKDKVCQELSTLGKDDFRSLSLILYSRKFPSSTFEQVSQLVKEVVS
 TEECCAEGADPNCYDTRTSELSIKSCESDAPFPVHPGTSECCTKEGLERKLCMAALSHQPQEFPAYVEPT
 NDEICEAFRKDPKGFADQFLFEYSSNYGQAPLPLLVGYTKSYLSMVGSCCTSAPKPTVCFLKERLQMKQLS
 LLTTMSNRVCSQYAAYGKEKSRMSHLIKLAQKVPTANLEDVLAEDLTEL SRCCKSTSEDCMARELPE
 HTLKICGNLSKKNKFECCYETTPMGIFMCSYFMPTAEPLQLPAIKLPTSKDLGQSATQAMDQYTFEL
 SRRTQVPEVFLSKVLDTTLTLRECCDTQDSVSCFSTQSPLMKRQLTSFIEKGQEMCADYSENTFTEYKK
 KLAERLRTKMPNASPEELADMVAKHSDFASKCCSINSPPRYCSSQIDAEMRDILQS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

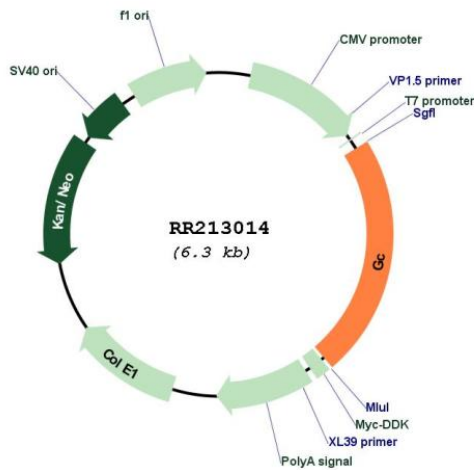
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_012564

ORF Size: 1428 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_012564.3](#), [NP_036696.2](#)

RefSeq Size: 1684 bp

RefSeq ORF: 1431 bp

Locus ID: 24384

Cytogenetics: 14p22

MW: 53.5 kDa

Gene Summary: transports vitamin D and vitamin D metabolites [RGD, Feb 2006]