

## Product datasheet for **RC232853**

### Vitamin D Binding protein (GC) (NM\_001204307) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Vitamin D Binding protein (GC) (NM_001204307) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Vitamin D Binding protein
Synonyms:	DBP; DBP-maf; DBP/GC; Gc-MAF; GcMAF; GRD3; HEL-S-51; VDB; VDBG; VDBP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC232853 representing NM\_001204307  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTGTGGTCTTGAGTGAGGAGAGAGGAGTGTCTGCAAGACTCTCTGGTAGAAAAATGAAGAGGGTCC  
 TGGTACTACTGCTTGCTGTGGCATTGGACATGCTTTAGAGAGAGGCCGGGATTATGAAAAGAATAAAGT  
 CTGCAAGGAATCTCCCATCTGGGAAAGGAGGACTTCACATCTCTGCTACTAGTCTGTACAGTAGAAAA  
 TTTCCAGTGGCACGTTTGAACAGGTGACCCAACCTGTGAAGGAAGTTGTCTCCTTGACCGAAGCCTGCT  
 GTGCGGAAGGGGCTGACCCTGACTGCTATGACACCAGGACCTCAGCACTGTCTGCCAAGTCTGTGAAAG  
 TAATTCTCCATTCCTGTTACCCAGGCACTGCTGAGTGTGCACCAAAGAGGGCCTGGAACGAAAGCTC  
 TGCATGGTGTCTGAAACACCAGCCACAGGAATTCCTACCTACGTGGAACCCACAATGATGAAATCT  
 GTGAGGCGTTGAGAAAGATCCAAAGGAATATGCTAATCAATTTATGTGGGAATATCCACTAATTACGG  
 ACAAGCTCTCTGCTCACTTTTAGTCAGTTACCCAAGAGTTATCTTTCTATGGTAGGGTCTGCTGTACC  
 TCTGCAAGCCCACTGTATGCTTTTTGAAAGAGAGACTCCAGCTTAAACATTTATCACTTCTCACCACTC  
 TGTCAAATAGAGTCTGCTCACAATATGCTGCTTATGGGGAGAAGAAATCAAGGCTCAGCAATCTCATAAA  
 GTTAGCCCAAAAAGTGCCTACTGCTGATCTGGAGGATGTTTTGCCACTAGCTGAAGATATTAATAACATC  
 CTCTCAAATGCTGTGAGTCTGCCTCTGAAGATTGCATGGCCAAAGAGCTGCCTGAACACACAGTAAAAAC  
 TCTGTGACAAATTTATCCACAAAGAATTTAAGTTTGAAGACTGTTGTCAAGAAAAACAGCCATGGGCGT  
 TTTTGTGTGCACTTACTCATGCCAGCTGCCAACTCCCGAGCTTCCAGATGTAGAGTTGCCACAAAAC  
 AAAGATGTGTGATCCAGGAAACACCAAAGTCATGGATAAGTATACATTTGAACTAAGCAGAAGGACTC  
 ATCTTCCGGAAGTATTCCTCAGTAAGGTACTTGAGCCAACCCTAAAAAGCCTTGGTGAATGCTGTGATGT  
 TGAAGACTCAACTACCTGTTTTAATGCTAAGGGCCCTCTACTAAAGAAGGAAGTATCTTCTTTCATTGAC  
 AAGGGACAAGAATATGTGCAGATTATTCAGAAAAATACATTTACTGAGTACAAGAAAAAACTGGCAGAGC  
 GACTAAAAGCAAAATGCTGATGCCACACCCACGGAAGTGGCAAAGCTGGTTAAACAAGCACTCAGACTT  
 TGCCTCAAAGTGTGTTCCATAAACTCACCTCCTCTTTACTGTGATTGAGAGATTGATGCTGAATTGAAG  
 AATATCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC232853 representing NM\_001204307  
 Red=Cloning site Green=Tags(s)

MLWSWSEERGAARLSGRKMKRVLVLLLAVAFGHALERGRDYKKNVCKEFSHLGKEDFTSLSLVLYSRK  
 FPSGTFEQVSQLVKEVSLTEACCAEGADPDCYDTRTSALSAKSCESNSPFPVHPGTAECCTKEGLERKL  
 CMAALKHQPEFPTYVEPTNDEICEAFRKPKEYANQFMWEYSTNYGQAPLSLLVSYTKSYLSMVGSCCT  
 SASPTVCFLKERLQKHL SLLTTL SNRVCSQYAA YGEEKSRLSNLIKLAQKVPTADLEDVPLAEDITNI  
 LSKCCESASEDCMAKELPEHTVKLCDNLSTKNSKFEDCCQEKAMDVFCVTFMPAAQLPELDPVELPTN  
 KDVCDPGNTKVMKYTFELSRRTHLPEVFLSKVLEPTLKSLECCDVEDSTTCFNAKGPLLKKESSIFID  
 KGQELCADYSENTFTEYKKLAERLKAKLPDATPTELAKLVNKHSDFASNCCSINSPLYCDSEIDAELK  
 NIL

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001204307

**ORF Size:** 1479 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\\_001204307.1](#), [NP\\_001191236.1](#)

**RefSeq Size:** 1832 bp

**RefSeq ORF:** 1482 bp

**Locus ID:** 2638

**UniProt ID:** [P02774](#)

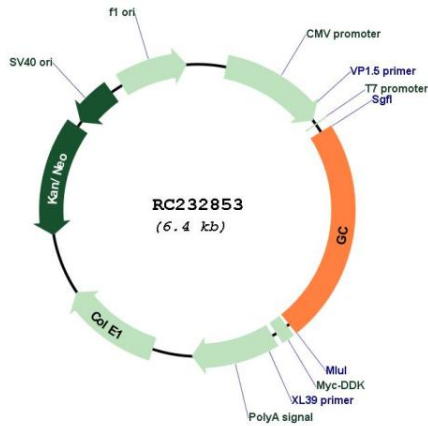
**Cytogenetics:** 4q13.3

**Protein Families:** Secreted Protein

**MW:** 55.5 kDa

**Gene Summary:** The protein encoded by this gene belongs to the albumin gene family. It is a multifunctional protein found in plasma, ascitic fluid, cerebrospinal fluid and on the surface of many cell types. It binds to vitamin D and its plasma metabolites and transports them to target tissues. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Feb 2011]

**Product images:**



Circular map for RC232853