

Product datasheet for **RG232853**

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:	TurboGFP
Symbol:	GC
Synonyms:	DBP; DBP-maf; DBP/GC; Gc-MAF; GcMAF; GRD3; HEL-S-51; VDB; VDBG; VDBP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG232853 representing NM_001204307
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGTGGTCTTGGAGTGAGGAGAGAGGAGTGTCTGCAAGACTCTCTGGTAGAAAAATGAAGAGGGTCC
 TGGTACTACTGCTTGCTGTGGCATTGGACATGCTTTAGAGAGAGGCCGGGATTATGAAAAGAATAAAGT
 CTGCAAGGAATCTCCCATCTGGGAAAGGAGGACTTCACATCTCTGCTACTAGTCTGTACAGTAGAAAA
 TTTCCAGTGGCACGTTTGAACAGGTGACGCCAAGTGTGAAGGAAGTTGTCTCCTTGACCGAAGCCTGCT
 GTGCGGAAGGGGCTGACCCTGACTGCTATGACACCAGGACCTCAGCACTGTCTGCCAAGTCTGTGAAAG
 TAATTCTCCATTCCTGTTACCCAGGCACTGCTGAGTGTGCACCAAAGAGGGCCTGGAACGAAAGCTC
 TGCATGGTGTCTGAAACACCAGCCACAGGAATTCCTACCTACGTGGAACCCACAATGATGAAATCT
 GTGAGGCGTTGAGAAAGATCCAAAGGAATATGCTAATCAATTTATGTGGGAATATCCACTAATTACGG
 ACAAGCTCTCTGCTACTTTTAGTCAGTTACCCAAGAGTTATCTTTCTATGGTAGGGTCTGCTGTACC
 TCTGCAAGCCCACTGTATGCTTTTTGAAAGAGAGACTCCAGCTTAAACATTTATCACTTCTCACCCTC
 TGTCAAATAGAGTCTGCTCACAATATGCTGCTTATGGGGAGAAGAAATCAAGGCTCAGCAATCTCATAAA
 GTTAGCCCAAAAAGTGCCTACTGCTGATCTGGAGGATGTTTTGCCACTAGCTGAAGATATTAATAACATC
 CTCTCAAATGCTGTGAGTCTGCCTCTGAAGATTGCATGGCCAAAGAGCTGCCTGAACACACAGTAAAAAC
 TCTGTGACAATTTATCCACAAAGAATTTAAGTTTGAAGACTGTTGTCAAGAAAAACAGCCATGGGCGT
 TTTTGTGTGCACTTACTCATGCCAGCTGCCAACTCCCGAGCTTCCAGATGTAGAGTTGCCACAAAAC
 AAAGATGTGTGATCCAGGAAACACCAAAGTCATGGATAAGTATACATTTGAACAAAGCAGAAGGACTC
 ATCTTCCGGAAGTATTCCTCAGTAAGGTACTTGAAGCAACCTAAAAAGCCTTGGTGAATGCTGTGATGT
 TGAAGACTCAACTACCTGTTTTAATGCTAAGGGCCCTCTACTAAAGAAGGAAGTATCTTTCTTTCATTGAC
 AAGGGACAAGAATATGTGCAGATTATTCAGAAAAATACATTTACTGAGTACAAGAAAAAACTGGCAGAGC
 GACTAAAAGCAAAATTGCCTGATGCCACACCCACGGAAGTGGCAAAGCTGGTTAAACAAGCACTCAGACTT
 TGCCTCAAAGTGTGTTCCATAAACTCACCTCCTCTTTACTGTGATTCAGAGATTGATGCTGAATTGAAG
 AATATCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

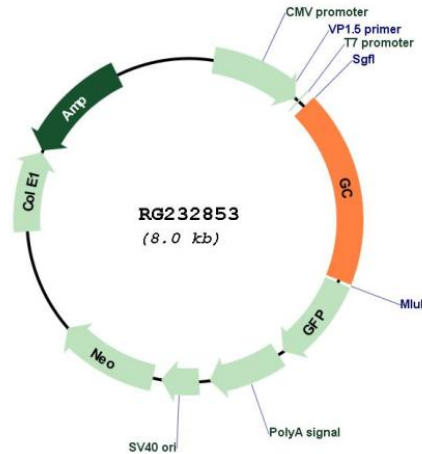
>RG232853 representing NM_001204307
 Red=Cloning site Green=Tags(s)

MLWSWSEERGGARLSGRKMKRVLVLLAVAFGHALERGRDYEKKNVCKEFSHLGKEDFTSLSLVLYSRK
 FPSGTFEQVSQLVKEVVSLEACCAEGADPDCYDTRTSALSAKSCESENPFVHPGTAECCTKEGLERKL
 CMAALKHQPEFPTYVEPTNDEICEAFRKPKEYANQFMWEYSTNYGQAPLSLLVSYTKSYLSMVGSCCT
 SASPTVCFLKERLQKHLSELLTTLNVRVCSQYAAAYGEKKSRLSNLIKLAQKVPTADLEDVPLAEDIITNI
 LSKCCESASEDCMAKELPEHTVKLCDNLSKNSKFEDCCQEKAMDVFCVTFMPAAQLPELDPVELPTN
 KDVCDPGNTKVMKYTFELSRRHLPEVFLSKVLEPTLKSLECCDVEDSTTCFNAKGPLLKKELSSFID
 KGQELCADYSENTFTEYKKLAERLKAKLPDAPTELAKLVNKHSDFASNCCSINSPPLYCDSEIDAELK
 NIL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Plasmid Map:


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

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]