

Product datasheet for **RG208864**

Vitamin D Binding protein (GC) (NM_000583) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vitamin D Binding protein (GC) (NM_000583) Human Tagged ORF Clone
Tag:	TurboGFP
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-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208864 representing NM_000583
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAAGAGGGTCTGCTACTACTGCTTGTGTGGCATTGGACATGCTTTAGAGAGAGGCCGGGATTATG
 AAAAGAATAAAGTCTGCAAGGAATTCTCCCATCTGGGAAAGGAGGACTTCACATCTCTGCTACTAGTCCT
 GTACAGTAGAAAAATTTCCAGTGGCAGCTTTGAACAGGTGAGCCAACTTGTGAAGGAAGTTGTCTCCTTG
 ACCGAAGCCTGTGTGCGGAAGGGGCTGACCTGACTGCTATGACACCAGGACCTCAGCACTGTCTGCCA
 AGTCTGTGAAAGTAATTCTCCATTCGCCGTTACCCAGGCACTGCTGAGTGTGCACCAAGAGGGCCT
 GGAACGAAAGCTCTGCATGGCTGCTGAAACACCAGCCACAGGAATTCCTACCTACGTGGAACCCACA
 AATGATGAAATCTGTGAGGCGTTCAGGAAAGATCAAAGGAATATGCTAATCAATTTATGTGGGAATATT
 CCACTAATTACGACAAGCTCCTCTGCTACTTTTAGTCAGTTACACCAAGAGTTATCTTTCTATGGTAGG
 GTCTGTGTACCTCTGCAAGCCCACTGTATGCTTTTTGAAAGAGAGACTCCAGCTTAAACATTTATCA
 TTCTCACCACCTGTGCAATAGAGTCTGCTCACAAATATGCTGCTTATGGGGAGAAGAAATCAAGGCTCA
 GCAATCTCATAAAGTTAGCCCAAAAAGTGCCTACTGCTGATCTGGAGGATGTTTTGCCACTAGCTGAAGA
 TATTACTAACATCCTCTCCAAATGCTGTGAGTCTGCCTCTGAAGATTGCATGGCCAAAGAGCTGCCTGAA
 CACACAGTAAACTCTGTGACAATTTATCCACAAGAATTCTAAGTTTGAAGACTGTTGTCAAGAAAAAA
 CAGCCATGGACGTTTTTGTGTGCACTTACTTTCATGCCAGCTGCCCACTCCCGAGCTTCCAGATGTAGA
 GTTGCCCAACAAGATGTGTGTGATCCAGGAAACACCAAAGTCATGGATAAGTATACATTTGAACTA
 AGCAGAAGGACTCATCTCCGGAAGTATTCCTCAGTAAGTACTTGAGCCAACCCATAAAGCCTTGGTG
 AATGCTGTGATGTTGAAGACTCAACTACTGTTTTAATGCTAAGGCGCCTCTACTAAAGAAGCAACTATC
 TTCTTTCAATTGACAAGGACAAGAATAATGTGCAGATTATTCAGAAAATACATTTACTGAGTACAAGAAA
 AAAGTGGCAGAGCGACTAAAAGCAAAATTCCTGATGCCACCCACGGAAGTGGCAAGCTGGTTAACA
 AGCGCTCAGACTTTGCCTCCAAGTCTGTTCCATAAACTCACCTCCTTTACTGTATTGAGAGATTGA
 TGCTGAATTGAAGAATATCCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

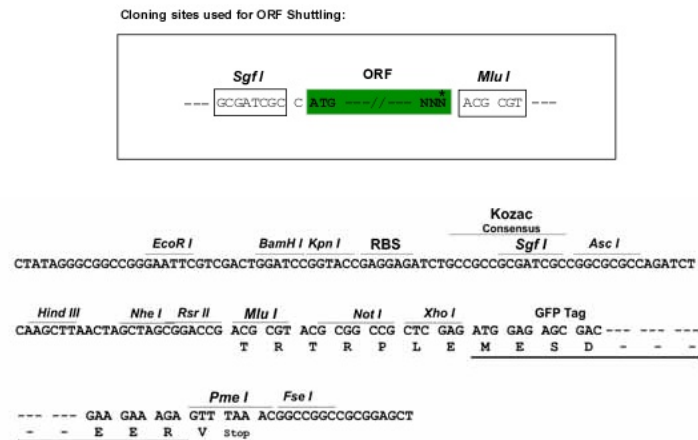
>RG208864 representing NM_000583
 Red=Cloning site Green=Tags(s)

MKRVLVLLAVAFGHALERGRDYEKNKVKCKEFSHLGKEDFTSLSLVLYSRKFPSGTFEQVSQLVKEVVSL
 TEACCAEGADPDCYDTRTSALSAKSCESNSFPVHPGTAECCTKEGLERKLCMAALKHQPFPTTYVEPT
 NDEICEAFRKPKEYANQFMWEYSTNYGQAPLSLLVSYTKSYLSMVGSCCTSASPTVCFKERLQKHL
 LLTTLNLRVCSQYAAAYGEKKSRLSNLIKLAQKVPTADLEDVPLAEDITNILSKCCESASEDCMAKELPE
 HTVKLCDNLSTKNSKFEDCCQEKAMDVVFCTYFMPAAQLPELDPVELPTNKDVCDPGNTKVMCKYTFEL
 SRRTHLPEVFLSKVLEPTLKSLECCDVEDSTTCFNAKGPLLKELSSFIDKGQELCADYSENTFTEYK
 KLAERLAKLPDATPTELAKLVNKRSDFASNCCSINSPPLYCDSEIDAELKNIL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_000583

ORF Size: 1422 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_000583.2](#), [NP_000574.2](#)

RefSeq Size: 1801 bp

RefSeq ORF: 1425 bp

Locus ID: 2638

UniProt ID: [P02774](#)

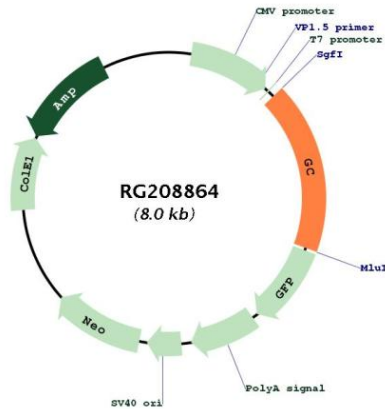
Cytogenetics: 4q13.3

Domains: ALBUMIN

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]

Product images:



Circular map for RG208864