

Product datasheet for **SC119806**

Vitamin D Binding protein (GC) (NM_000583) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vitamin D Binding protein (GC) (NM_000583) Human Untagged Clone
Tag:	Tag Free
Symbol:	Vitamin D Binding protein
Synonyms:	DBP; DBP-maf; DBP/GC; Gc-MAF; GcMAF; GRD3; HEL-S-51; VDB; VDBG; VDBP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC119806 sequence for NM_000583 edited (data generated by NextGen Sequencing)

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ATGAAGAGGGTCTGGTACTACTGCTTGTGCTGTGGCATTGGACATGCTTTAGAGAGAGGC
CGGGATTATGAAAAGAATAAAGTCTGCAAGGAATTCTCCCATCTGGGAAAGGAGGACTTC
ACATCTGTCTACTAGTCTGTACAGTAGAAAAATTTCCAGTGGCACGTTTGAACAGGTG
AGCCAACCTGTGAAGGAAGTTGTCTCCTTGACCGAAGCCTGCTGTGCGGAAGGGGCTGAC
CCTGACTGCTATGACACCAGGACCTCAGCACTGTCTGCCAAGTCTGTGAAAGTAATTCT
CCATTCCCGTTACCCAGGCACCTGCTGAGTGTGTCACCAAAGAGGGCCTGGAACGAAAG
CTCTGCATGGCTGCTCTGAAACACCAGCCACAGGAATTCCTACCTACGTGGAACCCACA
AATGATGAAATCTGTGAGGCGTTTCCAGGAAAGATCCAAAGGAATATGCTAATCAATTTATG
TGGGAATATTCCACTAATTACGGACAAGCTCCTCTGTCACTTTTGTAGTACAGTTACACCAAG
AGTTATCTTTCTATGGTAGGGTCTGCTGTACCTCTGCAAGCCCAACTGTATGCTTTTTG
AAAGAGAGACTCCAGCTTAAACATTTATCACTTCTCACCCTCTGCAAAATAGAGTCTGC
TCACAATATGCTGCTTATGGGGAGAAGAAATCAAGGCTCAGCAATCTCATAAAGTTAGCC
CAAAAAGTGCCTACTGCTGATCTGGAGGATGTTTTGCCACTAGCTGAAGATATTACTAAC
ATCCTCTCCAAATGCTGTGAGTCTGCCTCTGAAGATTGCATGGCCAAAGAGCTGCCTGAA
CACACAGTAAAATCTGTGACAATTTATCCACAAAGAATTCTAAGTTTGAAGACTGTTGT
CAAGAAAAACAGCCATGGACGTTTTTGTGTGCACTTACTTTCATGCCAGCTGCCAACTC
CCCAGCTTCCAGATGTAGAGTTGCCCAAAACAAAGATGTGTGTGATCCAGGAAACACC
AAAGTCATGGATAAGTATACATTTGAACTAAGCAGAAGGACTCATCTTCCGGAAGTATTC
CTCAGTAAGTACTTGAGCCAACCTAAAAAGCCTTGGTGAATGCTGTGATGTTGAAGAC
TCAACTACCTGTTTTAATGCTAAGGGCCCTCTACTAAAGAAGGAACTATCTTCTTTCATT
GACAAGGGACAAGAAGTATGTGCAAGTATTTCAGAAAAATACATTTACTGAGTACAAGAAA
AAACTGGCAGAGCGACTAAAAGCAAAATTCCTGAGGCCACACCCACGGAAGTGGCAAAG
CTGGTTAACAAGCGCTCAGACTTTGCCTCCAAGTCTGTTCCATAAACTCACCTCCTCTT
TACTGTGATTCAGAGATTGATGCTGAATTGAAGAATATCCTGTAG
    
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Clone variation with respect to NM_000583.3
1296 t=>g;1334 a=>g

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000583 unedited

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NGTCAAAATTTGTATACGACTCCTATAGGGCGGCCGGAATTCGCACGAGGTCACCTACA
GGAGAGAGGAGGTGCTGCAAGACTCTCTGGTAGAAAAATGAAGAGGGTCTGGTACTACT
GCTTGTGCTGGCATTGGACATGCTTTAGAGAGAGGGCCGGGATTATGAAAAGAATAAAGT
CTGCAAGGAATTTCCCATCTGGGAAAGGAGGACTTCACATCTCTGTCTACTAGTCTGTGTA
CAGTAGAAAAATTTCCAGTGGCACGTTTGAACAGGTGAGCCAACCTGTGAAGGAAGTTGT
CTCCTTGACCGAAGCCTGCTGTGCGGAAGGGGCTGACCCGACTGCTATGACACCAGGAC
CTCAGCACTGTCTGCCAAGTCTGTGAAAAGTAAATTCCTCATTCCCGTTACCCAGGCAC
TGCTGAGTGTGTCACCAAAGAGGGCCTGGAACGAAAGCTCTGCATGGCTGCTCTGAAACA
CCAGCCACAGGAATTCCTACCTACGTGGAACCCACAAATGATGAAATCTGTGAGGCGTT
CAGGAAAGATCCAAAGGAATATGCTAATCAATTTATGTGGGAATATTCCACTAATTACGG
ACAAGCTCCTCTGTCACTTTTGTAGTACAGTTACACCAAGAGTTATCTTTCTATGGTAGGTC
CTGCTGTACCTCTGCAAGCCCACTGTATGCTTTNTGAAAGAGAGACTCCAGCTTANACA
TTTATCACTTCTCACCCTCTGTCAAATAGAGTCTGCTCACAATATGCTGCTTATGTTGGG
AGAAGAAATCAAGGCTCAGCAATCTCATAAAGTTAGCCAAAAGTGCCTACTGCTGATCT
GGNAGGATGTTNTGCCACTAGCTNGAGATATTACTAACATCCTCTCCAATGCTGTGAGTC
TGCTCTGAAGATGCATGGCCAAAGACTGCCTGAAC
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_000583 unedited NTTTTAANNNNNNNTTACTTAGNCCGCGGCCGATTTNANGATCGAGTTTTTTTTTTTT TTTTTTTTTTTTTTTTTATGGGTTGCATTATATTTCAATTTATTTTGATAGCAAATCATC ATACTTGTCAATTGATGAAGATATTGTAGCTAGAAAAATAGAAAGTATCCTAGTTGTCTT CCCAAAAGCTCAGTGGTTTTGCTTAGGTTAGGTCATCAAAGATCATTCCCCTGGGTGGCT CCAACTCTGGTCAAAGTTAATAAACATGCTTCAGGACTACAGGATATTCTTCAATTCAGC ATCAATCTCTGAATCACAGTAAAGAGGAGGTGAGTTTATGGAACAGCAGTTGGAGGCAAA GTCTGAGCGCTTGTTAACAGCTTTGCCAGTTCGGTGGGTGTGGCCTCAGGCAATTTTGC TTTTAGTCGCTCTGCCAGTTTTTCTTGTACTCAGTAAATGTATTTCTGAATAATCTGC ACATAGTCTTGTCCCTGTCAATGAAAGAAGATAGTTCCTTCTTTAGTAGAGGGCCCTT AGCATTAAAACAGGTAGTTGAGTCTTTCACATCACAGCATTACCAAGGCTTTTTAGGGT TGGCTCAGTACCTTACTGAGGATACTCCGGAAGATGAGTCTTCTGCTTAGTTCAATGT ATACTTATCCATGACTTTGGTGTTCCTGGATCACACACATCTTGGTTTGTGGGCACTC TACATTCTGAAGCTCGGGGAGTTGGGCAGCTGGCATGAAATAAGTGCCACAAAAACGTCA TGGGCTGTTTTTCTTGACAACAGTCTCCAAGTTAGAATCTTTGTGGATAAAATGTCAC AGAGTTTACTGGGTGGTTTCAGCAGCTCTTGGCCATGTATCTCAGAGGCAGACTACA GCATTTGGAGAGGATGTTAGNTATATCTCCAGCTANTGGCA
Restriction Sites:	NotI-NotI
ACCN:	NM_000583
Insert Size:	1730 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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:	<u>NM_000583.2</u> , <u>NP_000574.2</u>
RefSeq Size:	1801 bp
RefSeq ORF:	1425 bp
Locus ID:	2638
UniProt ID:	<u>P02774</u>
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]

Transcript Variant: This variant (1) is a predominant transcript. This variant and variant 2 encode the same isoform (1).