

Product datasheet for **SC302067**

Vitamin D Receptor (VDR) (NM_001017535) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vitamin D Receptor (VDR) (NM_001017535) Human Untagged Clone
Tag:	Tag Free
Symbol:	Vitamin D Receptor
Synonyms:	NR111; PPP1R163
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_001017535 edited
 ATGGAGGCAATGGCGGCCAGCACTTCCCTGCCTGACCCTGGAGACTTTGACCGGAACGTG
 CCCCGGATCTGTGGGTGTGTGGAGACCGAGCCACTGGCTTTCACCTTCAATGCTATGACC
 TGTGAAGGCTGCAAAGGCTTCTTCAGGGCAAGCATGAAGCGGAAGGCACTATTCACCTGC
 CCCTTCAACGGGACTGCCGCATACCAAGGACAACCGACGCCACTGCCAGGCCTGCCGG
 CTCAAACGCTGTGTGGACATCGGCATGATGAAGGAGTTTCTGACAGATGAGGAAGTG
 CAGAGGAAGCGGGAGATGATCCTGAAGCGGAAGGAGGAGGAGGCCTTGAAGGACAGTCTG
 CGGCCAAGCTGTCTGAGGAGCAGCAGCGCATCATTGCCATACTGCTGGACGCCACCAT
 AAGACCTACGACCCACCTACTCCGACTTCTGCCAGTCCGGCCTCCAGTTCGTGTGAAT
 GATGGTGGAGGGAGCCATCCTTCCAGGCCAACTCCAGACACACTCCCAGCTTCTCTGGG
 GACTCCTCCTCCTGCTCAGATCACTGTATCACCTTTCAGACATGATGGACTCGTCC
 AGCTTCTCCAATCTGGATCTGAGTGAAGAAGATTGAGTACCCCTTCTGTGACCCTAGAG
 CTGTCCCAGCTCTCCATGCTGCCCCACCTGGCTGACCTGGTCAAGTACAGCATCCAAAAG
 GTCATTGGCTTTGCTAAGATGATACCAGGATTCAGAGACCTCACCTCTGAGGACCAGATC
 GTACTGCTGAAGTCAAGTGCCATTGAGGTATCATGTTGCGCTCCAATGAGTCTTACC
 ATGGACGACATGCTCCTGGACCTGTGGCAACCAAGACTACAAGTACCGCGTCAGTGACGTG
 ACCAAAGCCGGACACAGCCTGGAGCTGATTGAGCCCTCATCAAGTCCAGGTGGGACTG
 AAGAAGCTGAACCTGCATGAGGAGGAGCATGCTCTGCTCATGGCCATCTGCATCGTCTCC
 CCAGATCGTCTGGGGTGCAGGACGCCGCGCTGATTGAGGCCATCCAGGACCGCCTGTCC
 AACACACTGCAGACGTACATCCGCTGCCGCCACCCGCCCGGGCAGCCACCTGCTCTAT
 GCCAAGATGATCCAGAAGCTAGCCGACCTGCGCAGCCTCAATGAGGAGCACTCCAAGCAG
 TACCGCTGCCTCTCCTTCCAGCCTGAGTGCAGCATGAAGCTAACGCCCTTGTGCTCGAA
 GTGTTTGGCAATGAGATCTCCTGA



[View online »](#)

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001017535 unedited NNGGTTCAAAATTTGTAACGACTCACTATAGGCGGCCGGAATCGCCTTTGGGTCTGAA GTGTCTGTGAGACCTCACANAAGAGCACCCCTGGGCTCCACTTACCTGCCCCCTGCTCCT TCAGGGATGGAGGCAATGGCGGCCAGCACTTCCCTGCCTGACCCTGGAGACTTTGACCGG AACGTGCCCCGGATCTGTGGGTGTGTGGAGACCGAGCCACTGGCTTTCACTTCAATGCT ATGACCTGTGAAGGCTGCAAAGGCTTCTCAGGCGAAGCATGAAGCGGAAGGCACTATTC ACCTGCCCTTCAACGGGGACTGCCGCATCACCAAGGACAACCGACGCCACTGCCAGGCC TGCCGGCTCAAACGCTGTGTGGACATCGGCATGATGAAGGAGTTATTCTGACAGATGAG GAAGTGCAGAGGAAGCGGGAGATGATCCTGAAGCGGAAGGAGGAGGAGGCCTTGAAGGAC AGTCTGCGGCCAAGCTGTCTGAGGAGCAGCAGCGCATATTGCCATACTGCTGGACGCC CACCATAAGACCTACGACCCACCTACTCCGACTTCTGCCAGTTCGGCCCTCCAGTTCGT GTGAATGATGGTNGGAGGGAGCCATCCTTCCAGGCCAACTCCAGACACACTCCCAGCTT CTCTGGGACTCCTCCTCCTCTGCTCAGATCACTGTATCACCTTTCAGACATGATGGA CTCGTCCAGCTTCTCCATCTGGATCTGAGTGAAGAAGATTGAGATGACCTTCTGTGACC CTAGAGCTGTCCAGCTCTCCATGCTGCCCCACCTGGCTGACCTGGTCAGTTACAGCATC CAAAGTCATTGGCTTTGCTAGATGATACCAGATTGAGAGACTCACCTCTGAGACAGATC GTCTGCTGAGTCAGTGCATTGAGTCATATGTTCC
Restriction Sites:	Please inquire
ACCN:	NM_001017535
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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:	NM_001017535.1 , NP_001017535.1

RefSeq Size: 4791 bp

RefSeq ORF: 1284 bp

Locus ID: 7421

UniProt ID: [P11473](#)

Cytogenetics: 12q13.11

Protein Families: Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

Gene Summary: This gene encodes vitamin D3 receptor, which is a member of the nuclear hormone receptor superfamily of ligand-inducible transcription factors. This receptor also functions as a receptor for the secondary bile acid, lithocholic acid. Downstream targets of vitamin D3 receptor are principally involved in mineral metabolism, though this receptor regulates a variety of other metabolic pathways, such as those involved in immune response and cancer. Mutations in this gene are associated with type II vitamin D-resistant rickets. A single nucleotide polymorphism in the initiation codon results in an alternate translation start site three codons downstream. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. A recent study provided evidence for translational readthrough in this gene, and expression of an additional C-terminally extended isoform via the use of an alternative in-frame translation termination codon. [provided by RefSeq, Jun 2018]

Transcript Variant: This variant (2) contains an additional 5' non-coding exon compared to variant 1. Variants 1 and 2 encode the same isoform (VDRA).