

Product datasheet for SC119941

Vitamin D Receptor (VDR) (NM_000376) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vitamin D Receptor (VDR) (NM_000376) 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 within SC119941 sequence for NM_000376 edited (data generated by NextGen Sequencing)

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ATGGAGGCAATGGCGGCCAGCACTTCCCTGCCTGACCCTGGAGACTTTGACCGGAACGTG
CCCCGGATCTGTGGGGTGTGTGGAGACCGAGCCACTGGCTTTCACCTCAATGCTATGACC
TGTGAAGGCTGCAAAGGCTTCTTCAGGCGAAGCATGAAGCGGAAGGCACTATTCACCTGC
CCCTTCAACGGGGACTGCCGCATACCAAGGACAACCGACGCCACTGCCAGGCTGCCGG
CTCAAACGCTGTGTGGACATCGGCATGATGAAGGAGTTTCTGACAGATGAGGAAGTG
CAGAGGAAGCGGGAGATGATCCTGAAGCGGAAGGAGGAGGAGGCCTTGAAGGACAGTCTG
CGGCCAAGCTGTCTGAGGAGCAGCAGCGCATCATTGCCATACTGCTGGACGCCACCAT
AAGACCTACGACCCACCTACTCCGACTTCTGCCAGTTCGGCCCTCCAGTTCGTGTGAAT
GATGGTGGAGGGAGCCATCCTTCCAGGCCAACTCCAGACACACTCCCAGCTTCTCTGGG
GACTCCTCCTCCTGCTCAGATCACTGTATCACCTTTCAGACATGATGGACTCGTCC
AGCTTCTCCAATCTGGATCTGAGTGAAGAAGATTGAGATGACCCTTCTGTGACCCTAGAG
CTGTCCCAGCTCTCCATGCTGCCCCACCTGGCTGACCTGGTCAGTTACAGCATCCAAAAG
GTCATTGGCTTTGCTAAGATGATACCAGGATTCAGAGACCTCACCTCTGAGGACCAGATC
GTACTGCTGAAGTCAAGTGCCATTGAGGTATCATGTTGCGCTCCAATGAGTCTTACC
ATGGACGACATGTCCTGGACCTGTGGCAACCAAGACTACAAGTACCGCGTCAGTGACGTG
ACCAAAGCCGGACACAGCCTGGAGCTGATTGAGCCCTCATCAAGTTCAGGTGGGACTG
AAGAAGCTGAAGTTCATGAGGAGGAGCATGTCCTGCTCATGGCCATCTGCATCGTCTCC
CCAGATCGTCTGGGGTGCAGGACGCCGCGCTGATTGAGGCCATCCAGGACCGCCTGTCC
AACACACTGCAGACGTACATCCGCTGCCGCCACCCGCCCCCGGGCAGCCACCTGTCTAT
GCCAAGATGATCCAGAAGCTAGCCGACCTGCGCAGCCTCAATGAGGAGCACTCCAAGCAG
TACCGCTGCCTCTCCTTCCAGCCTGAGTGCAGCATGAAGCTAACGCCCTTGTGCTCGAA
GTGTTTGGCAATGAGATCTCCTGA

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Clone variation with respect to NM_000376.2



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_000376 unedited TGGGGTCTCATTGTATACCACTTTTATAGGCGGCCGNAATCGCCTTTGGGTCTGAAG TGTCTGTGAGACCTCACANAAGAGCACCCCTGGGCTCCACTTACCTGCCCCCTGCTCCTT CAGGGATGGAGGCAATGGCGGCCAGCACTTCCCTGCCTGACCCTGGAGACTTTGACCGGA ACGTGCCCCGGATCTGTGGGGTGTGTGGAGACCAGCCACTGGCTTTCACCTCAATGCTA TGACCTGTGAAGGCTGCAAAGGCTTCTTCAGGCCAAGCATGAAGCGGAAGGCACTATTCA CCTGCCCTTCAACGGGACTGCCGCATACCAAGGACAACCGACGCCACTGCCAGGCCT GCCGGCTCAAACGCTGTGTGGACATCGGCATGATGAAGGAGTTTATTCTGACAGATGAGG AAGTGCAGAGGAAGCGGGAGATGATCCTGAAGCGGAAGGAGGAGGAGGCCTTGAAGGACA GTCTGCGGCCAAGCTGTCTGAGGAGCAGCAGCGCATCATTGCCATACTGCTGGACGCC ACCATAAGACCTACGACCCACCTACTCCGACTTCTGCCAGTTCGGCCTCCAGTTCGTG TGAATGATGGTGGAGGGAGCCATCCTCCAGGCCAACTCCAGACACTCCAGCTTCT CTGGGACTCCTCCTCCTGCTCAGATCACTGTATCACCTTTCAGACATGATGGACT CGTCCAGCTTCTCAATCTGGATCTGAGTGAAGAAGATTCAGATGACCCTTCTGTGACC TAGAGCTTGTCCAGCTTCCATGCTGCCACCTGGCTGACCTGGTCAGTTACAGCATCC AAAAGTCATTGGGCTTGCTTAGATGATACCAGGATTCAGAGACCTCT
Restriction Sites:	Please inquire
ACCN:	NM_000376
Insert Size:	1400 bp
OTI Disclaimer:	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.
	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
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_000376.2 , NP_000367.1
RefSeq Size:	4669 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:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the predominant transcript and encodes two isoforms, which result from the use of alternative in-frame translation termination codons. The shorter isoform (VDRA, also known as VDR) results from translation termination at the upstream UGA stop codon, while the longer isoform (VDRAx, also known as VDRx) results from UGA stop codon readthrough to the downstream UGA termination codon. This RefSeq represents the shorter isoform (VDRA). Variants 1 and 2 encode the same isoform.</p>