

## Product datasheet for **MG206711**

### Vdr (NM\_009504) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Vdr (NM\_009504) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Vdr  
**Synonyms:** Nr1i1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG206711 representing NM\_009504  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGCAATGGCAGCCAGCACCTCCCTGCCTGACCCTGGTGACTTTGACCGGAATGTGCCTCGGATCT  
GTGGAGTGTGGAGACCGAGCCACGGGCTTCCACTTCAACGCTATGACCTGTGAAGGCTGCAAGGGTTT  
CTTCAGGCGGAGCATGAAGCGCAAGGCCCTGTTCACTGCCCTTCAATGGAGATTGCCGCATCACCAAG  
GACAACCGGCGACTGCCAGGCCTGCCGGCTCAAACGCTGCGTGACATTGGCATGATGAAGGAGTTCA  
TCCTCACAGATGAGGAGGTGCAGCGTAAGCGAGAGATGATCATGAAGAGGAAGGAGAAGAGGCCTGAA  
GGACAGTCTGAGGCCAAGCTGTCTGAGGAGCAACAGCACATTATCGCCATCCTGCTCGATGCCACCAC  
AAGACCTACGACCCACCTATGCCGACTTCCGGGACTTCCGGCCTCCAATTCGTGACAGCTAAGTACAG  
GGAGCTATTCTCAAGGCCACACTCAGCTTCTCCGGAGACTCCTCCTCAAACCTCTGATCTGTACACCC  
CTCACTGGACATGATGGAACCGGCCAGCTTTCCACGATGGATCTGAATGAAGAAGGCTCCGATGACCC  
TCTGTGACCTGGACCTGTCTCCGCTCTCCATGCTGCCCCACCTGGTGATCTTGTCAAGTACAGCATCC  
AAAAGGTCATCGGCTTTGCCAAGATGATCCCTGGCTTCCAGGACCTCACCTCTGATGACCAGATTGTCT  
GCTTAAGTCAAGTGCCATTGAGGTGATCATGTTGCGCTCAACCAAGTCTTTACCTGGATGACATGTCC  
TGGGACTGTGGCAGCCAAGACTACAAATATGACATCACTGATGTTCTCCAGAGCTGGGCACACCCCTGGAG  
TGATCGAACCCTCATAAAGTTCAGGTGGGGCTGAAGAAGCTGAACCTCCATGAGGAAGAACATGTGCT  
GCTCATGGCCATCTGCATTGTCTCCCCAGACCGACCTGGGGTACAGGATGCTAAGCTGGTTGAAGCCATT  
CAGGACCGCCTATCCAACACACTGCAGACCTACATCCGCTGCCGCCACCCGCCCGGGCAGCCACCAGC  
TCTACGCCAAGATGATCCAGAAGCTGGCTGACCTGCGAAGCCTCAATGAGGAGCACTCCAACAGTACCG  
TTCCCTCTCTCCAGCCGAGAACAGCATGAAGCTCACACCCCTTGTGCTAGAGGTGTTCCGCAATGAG  
ATCTCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206711 representing NM\_009504  
 Red=Cloning site Green=Tags(s)

MEAMAASTSLPDPGDFDRNVPRICGVCGDRATGFHFNAMTCEGCKGFFRRSMKRKALFTCPFNGDCRITK  
 DNRRHCQACRLKRCVDIGMMKEFILTDEEVQRKREMIMKRKEEALKDSLRPKLSEEQQHIIAILLDAHH  
 KTYDPTYADFRDFRPPIRADVSTGSYSRPTLSFGDSSNSDL YTPSLDMMEPASFSTMDLNEEGSDDP  
 SVTLDL SPLSMLPHLADLVSYSIQKVIGFAKMIPGFRDLTSDQIVLLKSSAIEVIMLRSNQSF TLDMS  
 WDCGSQDYKYDITDVS RAGHTLELIEPLIKFQVGLKKNLHEEEHVLLMAICIVSPDRPGVQDAKLVEAI  
 QDRLSNTLQTYIRCRHPPPGSHQLYAKMIQKLADLRSLNEEHSKQYRSLSFQPENSMKLTPLVLEVFNGE  
 IS

TRTRPLE - GFP Tag - V

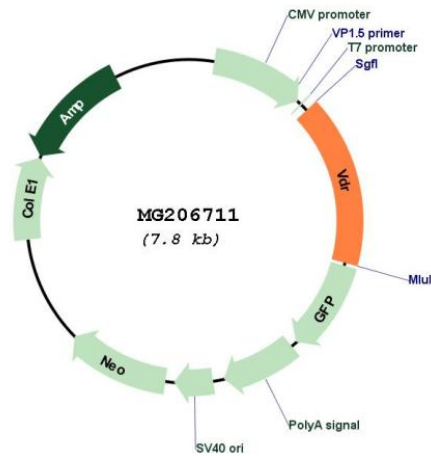
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM\_009504

<b>ORF Size:</b>	1266 bp
<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_009504.4</a>
<b>RefSeq Size:</b>	4357 bp
<b>RefSeq ORF:</b>	1269 bp
<b>Locus ID:</b>	22337
<b>UniProt ID:</b>	<a href="#">P48281</a>
<b>Cytogenetics:</b>	15 F1
<b>Gene Summary:</b>	<p>Nuclear receptor for calcitriol, the active form of vitamin D3 which mediates the action of this vitamin on cells (By similarity). Enters the nucleus upon vitamin D3 binding where it forms heterodimers with the retinoid X receptor/RXR (By similarity). The VDR-RXR heterodimers bind to specific response elements on DNA and activate the transcription of vitamin D3-responsive target genes (By similarity). Plays a central role in calcium homeostasis (By similarity). [UniProtKB/Swiss-Prot Function]</p>