

Product datasheet for **KN209262LP**

Vitamin D Receptor (VDR) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control
Donor DNA:	Luciferase-Puro
Symbol:	Vitamin D Receptor
Locus ID:	7421
Components:	KN209262G1 , Vitamin D Receptor gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) KN209262G2 , Vitamin D Receptor gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) KN209262LPD , donor DNA containing left and right homologous arms and Luciferase-Puro functional cassette. GE100003 , scramble sequence in pCas-Guide vector
RefSeq:	NM_000376 , NM_001017535 , NM_001017536 , NM_001364085
UniProt ID:	P11473
Synonyms:	NR1I1; PPP1R163
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]



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Product images:

