

Supplementary Materials

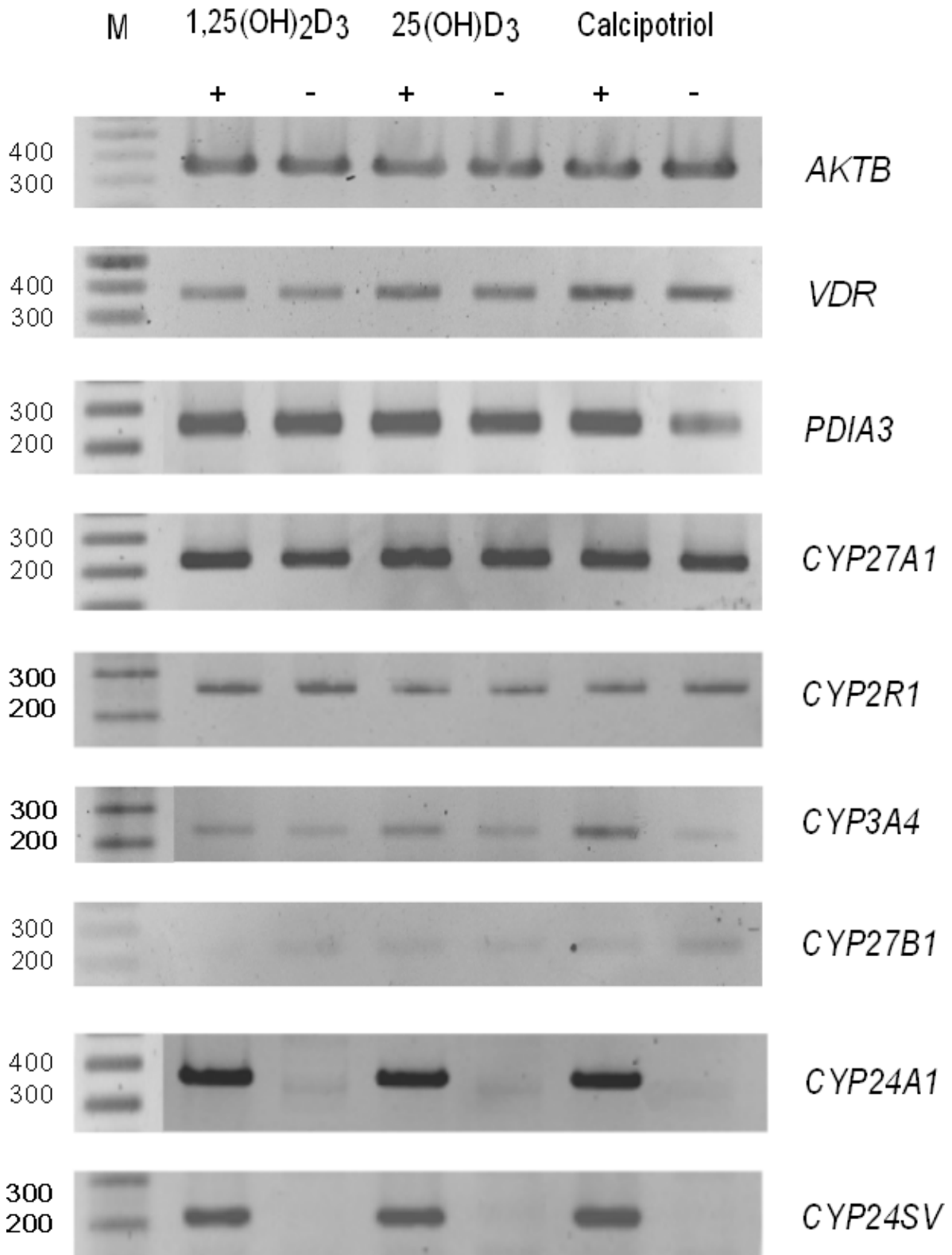


Figure S1. Analysis of induction of *VDR*, *PDIA3*, *CYP27A1*, *CYP2R1*, *CYP3A4*, *CYP27B1*, *CYP24A1* and *CYP24SV* (mRNA) after 1,25(OH)₂D₃, 25(OH)D₃ or calcipotriol treatment (1 μM, 24 h) using WM98 cell line. The relative amount of mRNA was determined by semiquantitative PCR method normalized to *AKTB* mRNA level. The specificity of the PCR products were evaluated in relation to molecular weight marker (M) to confirm the lengths of amplicons as presented in Table S1.

Table S1. Sequences of design primers used to amplify fragments of genes (from 180 base pairs to 384 base pairs) related with vitamin D response. Primers were designed using human melanoma genes sequences from NCBI BLAST, <http://blast.ncbi.nlm.nih.gov/>. Melting temperature of primers calculated using Primer Quest Software. GAPDH primers were supplemented to RevertAid™ First Strand cDNA Synthesis Kit (Fermentas, Vilnius, Lithuania).

	Sequence	Name	Organism	Temp. (°C)	b.p.
1	GCTCGTCGTCGACAACGGCTC CAAACATGATCTGGGTCATCTTCT	<i>AKTB F</i> <i>AKTB R</i>	Homo sapiens Homo sapiens	60,2 54	353
2	CAAGGTCATCCATGACAACCTTG GTCCACCACCCTGTTGCTGTAG	<i>GAPDH F</i> <i>GAPDH R</i>	Homo sapiens Homo sapiens		
3	CCAGTTCGTGTGAATGATGG GTCGTCCATGGTGAAGGA	<i>VDR Pr 5 F</i> <i>VDR Pr 5 R</i>	Homo sapiens Homo sapiens	59,96 57,83	384
4	TGAACTTGCATGAGGAGGAGCA TGTACGTCTGCAGTGTGTTGGA	<i>VDR Pr 1 F</i> <i>VDR Pr 1 R</i>	Homo sapiens Homo sapiens	58.4 58.6	132
5	GCCACTGGCTTTCACCTCAATGCT TCATCATGCCGATGTCCACACA	<i>VDR Pr 2 F</i> <i>VDR Pr 2 R</i>	Homo sapiens Homo sapiens	60,1 58,6	180
6	TGTCGATGGTGCTCAGAACTGCT TCATCATGCCGATGTCCACACA	<i>VDR Pr 3 F</i> <i>VDR Pr 3 R</i>	Homo sapiens Homo sapiens	60,3 58,6	386
7	AACAGCTTGCCACCCGCC TCATCATGCCGATGTCCACACA	<i>VDR Pr 4 F</i> <i>VDR Pr 4 R</i>	Homo sapiens Homo sapiens	60,7 58,6	532-b* 410-c*
8	TCAGGAAACATGGCTTCCTTCACC ACAAGGACTGCCTGATTGACAAGC	<i>RXRα F</i> <i>RXRα R</i>	Homo sapiens Homo sapiens	71 69,4	175
9	CTCCGACGTGCTAGAACTCA CAGGTGTTAGTGTGGCAGT	<i>Pdia3 F</i> <i>Pdia3 R</i>	Homo sapiens Homo sapiens	63,2 60,3	204
10	GGCAAGTACCCAGTACGG AGCAAATAGCTTCCAAGG	<i>CYP27A1 F</i> <i>CYP27A1 R</i>	Homo sapiens Homo sapiens	56,52 53,07	292
11	AGAGACCCAGAAGTGTTCCAT GTCTTTCAGCACAGATGAGGTA	<i>CYP2R1 F</i> <i>CYP2R1 R</i>	Homo sapiens Homo sapiens	61,6 60,9	259
12	AAGGCACCACCCACCTATGATACT TACTTTGGGTCACGGTGAAGAGCA	<i>CYP3A4 F</i> <i>CYP3A4 R</i>	Homo sapiens Homo sapiens	67,3 70,5	197
13	TGTTTGCATTTGCTCAGA CCGGGAGAGCTCATAACAG	<i>CYP27B1 F</i> <i>CYP27B1 R</i>	Homo sapiens Homo sapiens	54,63 56,79	227
14	GCAGCCTAGTGCAGATTT ATTCACCCAGAACTGTTG	<i>CYP24A1 F</i> <i>CYP24A1 R</i>	Homo sapiens Homo sapiens	53,97 51,3	335
15	TCCTGAAAGTTGCAGCTGGAGT GAGCTCATCTATTCTGCCATA	<i>CYP24SV F</i> <i>CYP24SV R</i>	Homo sapiens Homo sapiens	66,3 62,1	213

* Depends on VDR isoform PCR product consist of 410 or 532 base pairs.