

## SUPPLEMENTARY MATERIAL

## SUPPLEMENTARY TABLES

Table S1: qPCR primers.

Gene	Fragment size (bp)	Annealing temperature (°C)	Primer sequences (5'-3')
<i>B2M</i>	246	60	GGCTATCCAGCGTACTCCAAA CGGCAGGCATACTCATCTTTTT
<i>CD14</i>	142	60	ACGCCAGAACCTTGTGAGC GCATGGATCTCCACCTCTACTG
<i>GAPDH</i>	113	60	CATGAGAAGTATGACAACAGCC AGTCCTTCCACGATACCAAAGT
<i>HPRT1</i>	94	60	TGACACTGGCAAAACAATGCA GGTCCTTTTCACCAGCAAGCT
<i>RPLP0</i>	318	60	AGATGCAGCAGATCCGCAT GTGGTGATACCTAAAGCCTG
<i>THBD</i>	107	60	GACCTTCCTCAATGCCAGTCA CGTCGCCGTTTCAGTAGCAA
<i>VDR</i>	332	60	AGATGACCCTTCTGTGACCC AGCTTCTTCAGTCCCACCTG

**Table S2: Ranking of vitamin D response.** Complete data set for 71 participants that donated PBMCs. From 47 of them also adipose tissue biopsies were taken. Ranking is based on response of both tissues to vitamin D.

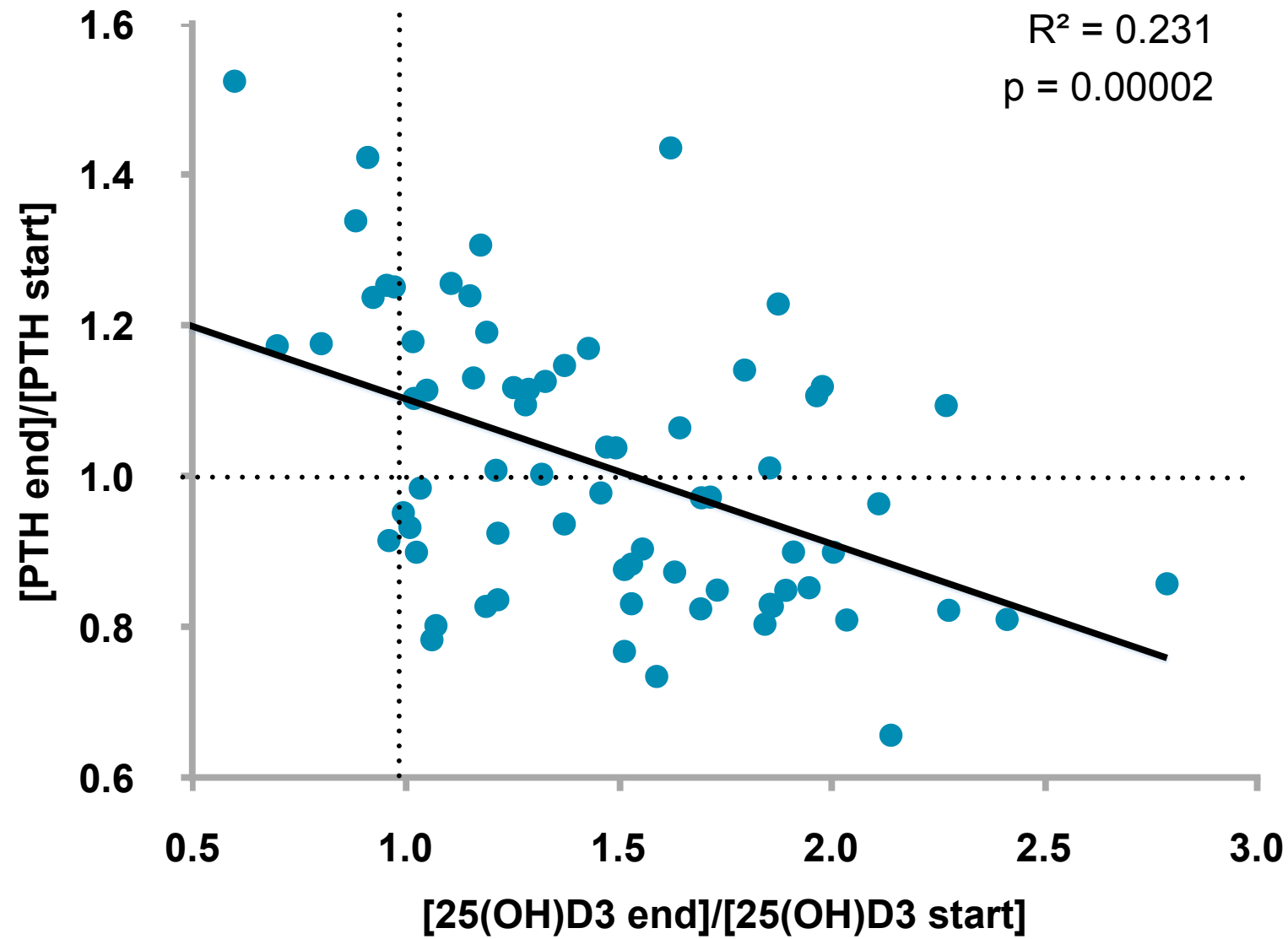
### SUPPLEMENTARY FIGURE LEGENDS

**Figure S1: Negative correlation of serum concentrations for 25(OH)D<sub>3</sub> and PTH protein.** For all 71 participants the ratio of the 25(OH)D<sub>3</sub> concentration at the end and the start of the study is plotted against the respective change of the PTH serum concentrations.

**Figure S2: VDR binding regions of the genes *CD14* and *THBD*.** VDR ChIP-seq data for the genomic loci of the genes *CD14* (A) and *THBD* (B) are shown. The peak tracks show data from LS-180 colon carcinoma cells (pink [24]), lymphoblastoids (light blue [20]) and THP-1 monocytes (red [21]) comparing genomic VDR binding in unstimulated or vehicle-stimulated cells with that after 1,25(OH)<sub>2</sub>D<sub>3</sub> (1,25D) treatment for indicated times. The structure of the genes is shown in blue and the respective VDR peaks are boxed.

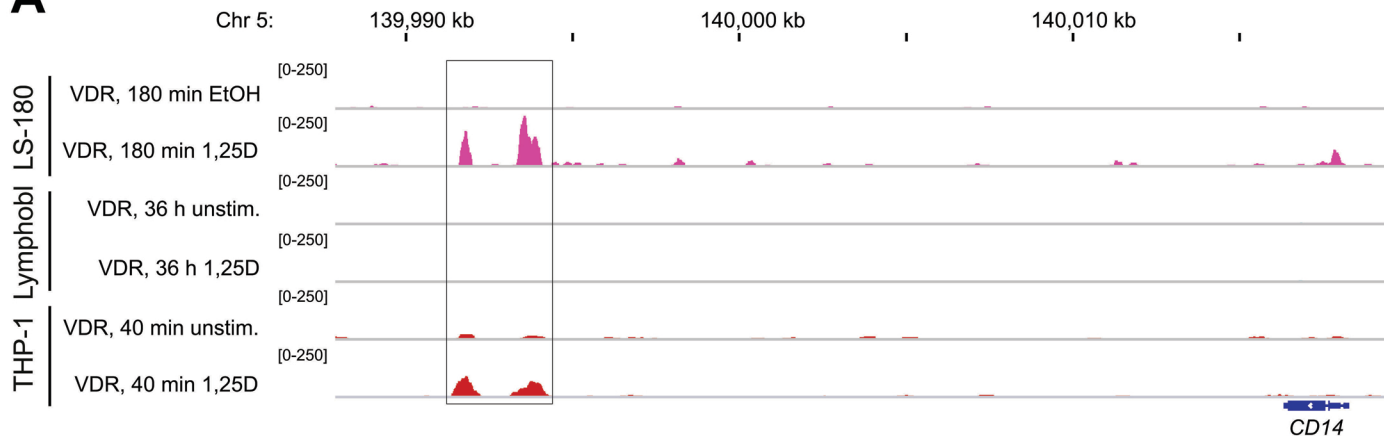
**Figure S3: *CD14* and *THBD* expression levels normalized by VDR expression.** The mRNA expression of the genes *CD14* (A) and *THBD* (B) in PBMCs at the end and the start of the study correlate even better, when it is normalized by mRNA expression.

**Fig. S1**

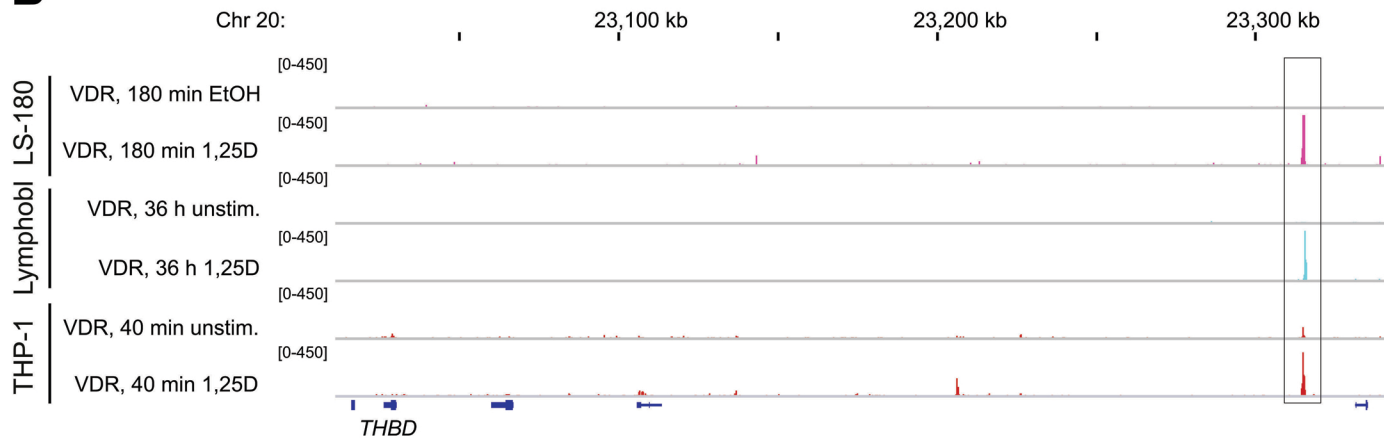


**Fig. S2**

**A**



**B**



**Fig. S3**

