

Table 1. 38 Vitamin D regulated lung developmental genes and their log2 fold changes in 3 asthma and vitamin D stimulation studies: Lymphoblastoid B-cells of pediatric asthma (GSE8052) and vitamin D treatment (CAMP 43), and normal human bronchial smooth muscle vitamin D treatment (GSE5145). Bold log2 values indicate statistical significance.

Gene ID	Gene	Supervised	Unsupervised	GSE8052 asthma / unaffected	CAMP 43 vitamin D / control	GSE5145 vitamin D / control
174	AFP	S	-	0.007	-0.047	0.094
213	ALB	S	-	-0.023	0.074	-0.130
332	BIRC5	S	-	-0.133	-0.030	0.055
355	FAS	S	-	0.098	0.060	0.189
857	CAV1	S	-	-0.058	-0.169	0.141
950	SCARB2	-	U	-0.341	-0.124	-0.174
960	CD44	S	-	0.155	0.107	0.325
969	CD69	-	U	0.046	0.239	0.022
1080	CFTR	S	-	0.022	-0.103	0.184
1520	CTSS	-	U	0.053	0.026	0.301
1636	ACE	S	-	0.062	-0.148	-0.262
2028	ENPEP	S	-	0.025	0.047	0.651
2222	FDFT1	-	U	0.080	0.056	0.125
3123	HLA-DRB1	S	-	0.130	-0.090	-0.107
3248	HPGD	S	-	0.022	-0.040	-0.134
3479	IGF1	S	-	-0.094	0.071	0.436
3575	IL7R	S	-	0.027	0.075	0.310
3638	INSIG1	-	U	-0.025	0.065	1.223
4065	LY75	-	U	0.208	0.108	-0.163
4609	MYC	S	-	0.124	0.034	-0.239
5251	PHEX	S	-	0.005	0.031	-0.084
5621	PRNP	-	U	0.036	0.101	0.362
5743	PTGS2	S	-	0.013	0.087	0.044
6303	SAT1	-	U	0.077	0.141	0.064
6307	SC4MOL	-	U	0.070	0.058	0.297
6422	SFRP1	S	-	0.084	0.054	-0.335
6696	SPP1	S	-	-0.002	-0.073	-0.035
6781	STC1	S	-	-0.052	-0.085	-0.401
7298	TYMS	S	-	-0.062	0.032	-0.115
8395	PIP5K1B	-	U	-0.239	0.149	0.107
9476	NAPSA	-	U	-0.032	0.388	0.036
10561	IFI44	-	U	-0.183	-0.098	-0.326
10628	TXNIP	S	-	-0.211	-0.360	-0.151
27074	LAMP3	-	U	0.127	0.080	0.097
54541	DDIT4	-	U	0.080	-0.018	0.456
64135	IFIH1	-	U	0.178	0.058	-0.243
79161	TMEM243	-	U	0.000	0.054	0.168
79805	VASH2	-	U	0.090	0.302	0.179