

*Supplementary Materials*

Supplementary Table SI. Detailed information of the SNPs associated with FEV1

SNP	Chr	Pos	EA	OA	EAF	Beta	SE	P value	F statistic	N
rs11588312	1	2199057	T	C	0.071	-0.026	0.003	8.80E-15	60	421986
rs10911335	1	172197297	C	T	0.211	0.016	0.002	4.90E-14	57	421986
rs6690055	1	26783857	A	G	0.254	-0.017	0.002	5.00E-17	70	421986
rs6671370	1	218597044	A	G	0.287	0.018	0.002	8.50E-22	92	421986
rs28514522	1	218859462	A	G	0.094	0.017	0.003	8.00E-09	33	421986
rs4655027	1	22473791	T	C	0.575	-0.012	0.002	3.10E-12	49	421986
rs72906804	1	51450144	G	A	0.089	0.020	0.003	2.10E-11	45	421986
rs183967755	1	150650581	A	G	0.016	0.047	0.007	8.70E-12	47	421986
rs61821293	1	208007277	G	T	0.219	0.013	0.002	2.50E-09	36	421986
rs1390403	1	227673227	A	C	0.808	0.015	0.002	1.20E-11	46	421986
rs681907	1	78692013	C	T	0.201	-0.016	0.002	9.60E-13	51	421986
rs6429838	1	83262934	G	A	0.493	0.011	0.002	1.10E-09	37	421986
rs1867264	1	239845277	T	A	0.385	-0.011	0.002	1.70E-09	36	421986
rs761422	1	17301780	G	A	0.491	0.012	0.002	8.30E-12	47	421986
rs11576892	1	38046446	C	T	0.084	-0.021	0.003	2.70E-11	44	421986
rs2885697	1	41544279	T	G	0.665	-0.017	0.002	2.60E-20	85	421986
rs1679910	1	53582321	A	G	0.437	0.010	0.002	3.20E-08	31	421986
rs10789246	1	68360969	C	T	0.301	-0.011	0.002	3.90E-09	35	421986
rs35017809	1	178885791	C	T	0.058	0.021	0.004	2.00E-08	31	421986
rs12028838	1	219778675	T	G	0.448	-0.010	0.002	3.70E-08	30	421986
rs62126408	2	18309132	C	T	0.143	0.022	0.002	1.20E-18	78	421986
rs11689727	2	25458100	A	C	0.331	-0.011	0.002	1.30E-09	37	421986
rs10490551	2	42560388	A	T	0.276	0.014	0.002	1.60E-12	50	421986
rs10167980	2	121747429	G	A	0.734	-0.011	0.002	1.40E-08	32	421986
rs2680880	2	136873549	T	A	0.620	-0.013	0.002	1.20E-12	51	421986
rs7558918	2	23997661	G	T	0.448	0.017	0.002	4.60E-23	98	421986
rs72904209	2	157046432	C	T	0.134	-0.022	0.003	3.90E-18	75	421986
rs13429514	2	169479995	A	G	0.238	0.014	0.002	2.10E-11	45	421986

rs35945722	2	239893783	A	G	0.188	0.018	0.002	1.00E-15	64	421986
rs2544535	2	15906778	C	T	0.513	0.014	0.002	6.70E-15	61	421986
rs17400325	2	178565913	C	T	0.042	0.031	0.004	1.20E-12	50	421986
rs876531	2	242500662	T	C	0.456	-0.016	0.002	4.10E-21	89	421986
rs3791679	2	56096892	G	A	0.227	-0.032	0.002	9.30E-54	238	421986
rs71427097	2	97526963	T	C	0.029	-0.030	0.005	1.60E-08	32	421986
rs2678408	2	199713224	C	T	0.463	-0.013	0.002	1.80E-14	59	421986
rs183587141	2	227368066	T	C	0.016	-0.054	0.007	6.60E-15	61	421986
rs4413161	2	241763880	A	T	0.716	-0.011	0.002	4.30E-08	30	421986
rs9295	2	36777825	A	G	0.296	0.012	0.002	5.90E-10	38	421986
rs56332326	2	100573355	C	T	0.135	-0.016	0.003	6.10E-10	38	421986
rs11674239	2	218424574	G	C	0.266	-0.011	0.002	1.80E-08	32	421986
rs6729308	2	218694153	A	G	0.439	-0.015	0.002	9.60E-18	74	421986
rs11707746	3	123068817	C	T	0.287	-0.012	0.002	7.20E-10	38	421986
rs6762578	3	128992047	A	G	0.778	0.017	0.002	1.30E-16	68	421986
rs73154314	3	158225517	C	A	0.268	-0.015	0.002	2.40E-15	63	421986
rs9864975	3	57893507	G	A	0.244	0.017	0.002	1.00E-16	69	421986
rs7630228	3	71681487	C	T	0.434	0.014	0.002	2.80E-15	62	421986
rs62275574	3	156338528	A	C	0.040	-0.028	0.005	5.60E-10	38	421986
rs879394	3	168709843	T	G	0.233	-0.019	0.002	1.70E-20	86	421986
rs78101726	3	169295436	G	A	0.152	-0.023	0.002	8.40E-21	88	421986
rs2194411	3	185548663	A	G	0.128	0.022	0.003	1.40E-16	68	421986
rs9310389	3	11687952	T	C	0.545	0.010	0.002	1.00E-08	33	421986
rs7638143	3	13806135	A	G	0.582	-0.015	0.002	1.60E-17	73	421986
rs6790568	3	49835450	T	C	0.175	-0.015	0.002	1.10E-10	42	421986
rs3846054	3	134141848	T	C	0.451	0.010	0.002	1.10E-08	33	421986
rs12152266	3	196911361	T	C	0.274	0.014	0.002	3.70E-13	53	421986
rs13433809	3	32935126	G	A	0.439	-0.013	0.002	2.10E-13	54	421986
rs75216331	3	72400260	A	G	0.237	-0.012	0.002	1.20E-09	37	421986
rs1829935	3	98796510	G	A	0.251	-0.018	0.002	2.60E-20	85	421986
rs1344674	3	141125186	G	A	0.446	0.014	0.002	1.30E-15	64	421986

rs4894559	3	172233369	G	A	0.733	-0.012	0.002	2.20E-09	36	421986
rs62275880	4	3469826	T	A	0.261	-0.012	0.002	4.80E-09	34	421986
rs28409044	4	166337461	A	C	0.334	0.011	0.002	1.20E-09	37	421986
rs4478172	4	7902003	C	A	0.262	-0.013	0.002	1.10E-11	46	421986
rs34712979	4	106819053	A	G	0.255	-0.029	0.002	3.50E-47	208	421986
rs11938781	4	17924734	C	T	0.165	-0.032	0.002	9.80E-43	188	421986
rs13101469	4	124821733	T	A	0.197	-0.015	0.002	2.70E-12	49	421986
rs7663740	4	145468845	T	G	0.542	0.029	0.002	8.50E-61	271	421986
rs12645165	4	106087217	C	T	0.364	0.014	0.002	5.90E-14	56	421986
rs2292839	4	139949554	A	T	0.220	0.012	0.002	1.60E-08	32	421986
rs12641030	4	57803505	G	A	0.468	-0.013	0.002	3.90E-14	57	421986
rs2099930	4	82051468	A	G	0.341	0.011	0.002	5.10E-09	34	421986
rs7723049	5	524772	G	A	0.199	-0.015	0.002	7.20E-12	47	421986
rs4836528	5	122652493	C	T	0.409	-0.015	0.002	7.90E-18	74	421986
rs56353224	5	134414688	C	T	0.371	-0.010	0.002	1.00E-08	33	421986
rs72643433	5	158364449	A	G	0.252	-0.017	0.002	5.80E-18	75	421986
rs1966265	5	176516631	A	G	0.245	0.014	0.002	1.90E-11	45	421986
rs72754977	5	42688179	A	G	0.059	0.021	0.004	3.60E-08	30	421986
rs278064	5	53458923	C	T	0.377	-0.011	0.002	2.20E-09	36	421986
rs13178887	5	88355993	C	T	0.387	-0.010	0.002	6.20E-09	34	421986
rs7733410	5	147856522	A	G	0.443	0.020	0.002	4.10E-31	135	421986
rs11134789	5	156944199	A	C	0.342	-0.014	0.002	4.30E-15	62	421986
rs889312	5	56031884	A	C	0.716	0.011	0.002	3.80E-08	30	421986
rs264770	5	64391134	C	T	0.671	0.011	0.002	1.10E-08	33	421986
rs75421844	5	108220554	C	T	0.084	0.023	0.003	4.40E-13	52	421986
rs4634390	5	115039350	A	G	0.279	0.012	0.002	1.30E-09	37	421986
rs1011400	5	148611941	C	G	0.466	-0.011	0.002	1.20E-10	41	421986
rs75831829	5	170855335	T	C	0.234	-0.015	0.002	1.20E-12	50	421986
rs75301758	5	43678781	T	C	0.184	-0.012	0.002	2.60E-08	31	421986
rs425102	5	77396400	G	T	0.241	-0.016	0.002	1.20E-15	64	421986
rs9379084	6	7231843	A	G	0.116	-0.017	0.003	6.20E-10	38	421986

rs56795193	6	141781825	C	T	0.203	0.014	0.002	4.80E-10	39	421986
rs3253	6	169616112	T	C	0.314	0.011	0.002	2.90E-09	35	421986
rs879098	6	2507448	G	A	0.399	-0.011	0.002	1.40E-10	41	421986
rs853678	6	28297313	A	T	0.163	-0.021	0.002	6.70E-20	83	421986
rs4959021	6	31981146	C	T	0.814	-0.028	0.002	2.50E-32	140	421986
rs6923431	6	129824754	C	A	0.735	0.013	0.002	1.00E-11	46	421986
rs225646	6	142482284	A	G	0.757	0.017	0.002	1.20E-16	69	421986
rs262827	6	158683646	T	A	0.336	0.014	0.002	7.90E-15	60	421986
rs55775505	6	22057566	T	C	0.315	-0.017	0.002	3.20E-19	80	421986
rs76010139	6	80923227	A	G	0.031	0.037	0.005	5.40E-13	52	421986
rs2806356	6	109266255	C	T	0.186	-0.020	0.002	4.70E-19	80	421986
rs1415701	6	130345835	A	G	0.268	-0.023	0.002	7.00E-32	138	421986
rs9322332	6	152166801	A	C	0.456	0.013	0.002	1.30E-14	59	421986
rs1187115	6	34172055	A	C	0.830	-0.028	0.002	6.50E-35	152	421986
rs1053049	6	35395618	T	C	0.763	0.022	0.002	4.10E-26	112	421986
rs6902142	6	105479558	G	A	0.182	-0.013	0.002	5.50E-09	34	421986
rs1490384	6	126851160	T	C	0.500	0.020	0.002	6.80E-30	129	421986
rs2717329	7	19062775	A	G	0.295	0.016	0.002	1.40E-16	68	421986
rs17855988	7	73474825	C	G	0.099	0.016	0.003	4.20E-08	30	421986
rs7778674	7	46418650	G	A	0.421	0.013	0.002	2.90E-14	58	421986
rs42032	7	92237426	A	G	0.263	0.014	0.002	3.20E-13	53	421986
rs11559147	7	6617247	G	C	0.709	0.012	0.002	1.80E-10	41	421986
rs13229167	7	23591862	A	G	0.271	-0.018	0.002	4.30E-21	89	421986
rs6462426	7	32905809	C	T	0.945	-0.021	0.004	3.90E-08	30	421986
rs4728358	7	135250270	T	C	0.687	-0.010	0.002	2.50E-08	31	421986
rs9886260	7	140683398	A	G	0.723	-0.013	0.002	3.90E-11	44	421986
rs2971040	7	10000198	C	T	0.518	0.010	0.002	2.60E-08	31	421986
rs76226639	7	14836479	T	G	0.080	-0.019	0.003	1.40E-09	37	421986
rs6965423	7	82516530	C	T	0.509	-0.010	0.002	3.80E-09	35	421986
rs12698403	7	156127246	A	G	0.440	-0.014	0.002	2.10E-15	63	421986
rs76785101	8	32305121	T	C	0.059	-0.023	0.004	8.60E-10	38	421986

rs6473015	8	78178485	C	A	0.286	0.012	0.002	1.30E-09	37	421986
rs777707	8	8584344	A	G	0.531	0.012	0.002	2.30E-12	49	421986
rs34563869	8	57151776	A	T	0.144	-0.024	0.003	2.30E-21	90	421986
rs784808	8	97406226	C	T	0.556	0.010	0.002	2.90E-08	31	421986
rs7004355	8	130742223	C	T	0.463	-0.016	0.002	1.00E-19	83	421986
rs10107584	8	134645607	T	C	0.611	0.010	0.002	4.60E-08	30	421986
rs200784406	8	13326319	T	G	0.094	-0.017	0.003	4.00E-08	30	421986
rs72666766	8	69580612	G	A	0.181	-0.013	0.002	2.30E-09	36	421986
rs10283100	8	120596023	G	A	0.944	0.025	0.004	3.60E-11	44	421986
rs11166592	8	135577008	T	G	0.577	0.013	0.002	9.60E-13	51	421986
rs72718111	9	16985589	C	A	0.258	0.012	0.002	5.50E-10	39	421986
rs3814115	9	78504729	C	T	0.320	0.011	0.002	1.60E-08	32	421986
rs803906	9	119427729	C	G	0.535	-0.016	0.002	2.60E-19	81	421986
rs1983753	9	4160364	A	G	0.851	0.020	0.002	7.10E-16	65	421986
rs10965947	9	23588583	T	C	0.459	0.013	0.002	9.80E-14	55	421986
rs10797116	9	92191467	C	T	0.542	-0.013	0.002	3.80E-13	53	421986
rs28427480	9	98264942	C	A	0.094	0.023	0.003	9.40E-15	60	421986
rs1516890	9	108989399	A	G	0.470	-0.013	0.002	8.70E-14	56	421986
rs112723784	9	118309023	C	T	0.278	0.011	0.002	4.80E-08	30	421986
rs28446901	9	136308796	G	C	0.155	-0.014	0.002	9.50E-09	33	421986
rs7854962	9	96900505	G	C	0.213	-0.016	0.002	1.10E-13	55	421986
rs12684650	9	139110654	T	C	0.317	-0.017	0.002	6.40E-19	79	421986
rs2579762	10	78318879	C	A	0.471	-0.015	0.002	2.40E-18	76	421986
rs2450444	10	93010383	A	G	0.349	0.013	0.002	1.60E-13	54	421986
rs67326273	10	31353300	G	A	0.193	0.013	0.002	1.30E-09	37	421986
rs12358810	10	94917413	A	G	0.392	-0.011	0.002	1.60E-10	41	421986
rs56192823	10	104707727	A	G	0.040	0.025	0.004	3.40E-08	30	421986
rs12571363	10	124230612	A	C	0.107	-0.023	0.003	5.10E-16	66	421986
rs2001546	10	12285735	T	A	0.514	0.020	0.002	4.00E-31	135	421986
rs2808096	10	32128611	G	A	0.214	0.012	0.002	3.90E-09	35	421986
rs12413039	10	75524759	G	C	0.267	0.014	0.002	4.00E-13	53	421986

rs663378	10	28975214	A	G	0.834	-0.016	0.002	1.10E-11	46	421986
rs7075773	10	64598621	T	C	0.410	-0.013	0.002	3.40E-13	53	421986
rs10883928	10	105615074	T	C	0.359	-0.014	0.002	5.90E-14	56	421986
rs7124681	11	47529947	A	C	0.408	-0.012	0.002	7.90E-12	47	421986
rs2118022	11	89316133	C	T	0.360	-0.010	0.002	2.10E-08	31	421986
rs7105777	11	33041338	T	C	0.632	-0.010	0.002	6.90E-09	34	421986
rs4489748	11	62432815	C	T	0.307	0.012	0.002	6.20E-10	38	421986
rs4320932	11	2171601	C	T	0.186	-0.016	0.002	5.60E-13	52	421986
rs75166711	11	46154590	A	G	0.145	0.014	0.002	5.20E-09	34	421986
rs7930706	11	68742072	A	G	0.265	0.011	0.002	8.50E-09	33	421986
rs56397594	11	73038579	C	T	0.214	0.013	0.002	1.00E-09	37	421986
rs591322	11	57684680	G	T	0.443	0.011	0.002	1.10E-09	37	421986
rs12790261	11	66988048	A	C	0.082	-0.040	0.003	1.10E-36	160	421986
rs3918292	11	69457547	T	C	0.099	-0.022	0.003	9.00E-13	51	421986
rs541601	11	126009500	C	T	0.817	0.014	0.002	9.40E-10	37	421986
rs138198562	12	46429309	C	T	0.048	0.023	0.004	3.20E-08	31	421986
rs7961994	12	46755112	T	A	0.610	0.011	0.002	2.50E-10	40	421986
rs11107119	12	93983132	A	T	0.220	0.021	0.002	1.40E-23	100	421986
rs7132318	12	15415874	C	T	0.337	-0.011	0.002	2.50E-09	36	421986
rs2358947	12	66123932	G	C	0.862	-0.014	0.003	1.80E-08	32	421986
rs3858603	12	94207802	A	G	0.502	-0.011	0.002	1.40E-09	37	421986
rs35506	12	115500691	A	T	0.716	0.013	0.002	1.00E-11	46	421986
rs67551338	12	3393100	T	C	0.061	0.024	0.004	9.60E-11	42	421986
rs76895963	12	4384844	G	T	0.021	0.057	0.007	2.00E-17	72	421986
rs11049381	12	28315040	A	G	0.564	0.013	0.002	1.60E-14	59	421986
rs2555009	12	114666099	G	A	0.535	0.010	0.002	8.90E-09	33	421986
rs9988963	12	122991478	G	C	0.737	0.011	0.002	3.00E-08	31	421986
rs11049229	12	28089820	T	A	0.054	0.021	0.004	3.60E-08	30	421986
rs10771751	12	30802799	A	T	0.516	0.014	0.002	1.30E-15	64	421986
rs7968682	12	66371880	T	G	0.518	-0.024	0.002	6.80E-43	188	421986
rs5742643	12	102837863	C	T	0.752	-0.013	0.002	1.80E-11	45	421986

rs772920	12	56390364	G	C	0.335	-0.012	0.002	1.60E-11	45	421986
rs1240293	12	70278895	A	T	0.575	0.011	0.002	1.50E-09	37	421986
rs2645977	12	84009188	A	G	0.357	0.010	0.002	2.40E-08	31	421986
rs2812208	13	50707087	C	G	0.021	0.075	0.006	2.70E-35	154	421986
rs9535455	13	51088547	A	G	0.211	-0.012	0.002	3.80E-08	30	421986
rs7336610	13	92005137	T	C	0.575	-0.011	0.002	3.20E-10	40	421986
rs7320104	13	115059765	G	A	0.150	-0.013	0.002	3.50E-08	30	421986
rs803765	13	71647588	A	C	0.346	-0.012	0.002	2.50E-10	40	421986
rs560805	13	30202718	A	T	0.678	-0.010	0.002	2.30E-08	31	421986
rs12894780	14	93503386	C	T	0.126	-0.023	0.003	6.70E-18	74	421986
rs36226649	14	24835500	C	T	0.067	0.027	0.003	2.70E-14	58	421986
rs7493429	14	60806759	C	A	0.305	0.012	0.002	5.30E-11	43	421986
rs11621587	14	93098339	C	G	0.184	0.021	0.002	2.80E-20	85	421986
rs10141786	14	74817418	G	A	0.596	-0.012	0.002	9.70E-12	46	421986
rs112635299	14	94838142	T	G	0.020	0.039	0.006	3.10E-10	40	421986
rs7359156	14	37488610	G	A	0.209	-0.014	0.002	2.40E-10	40	421986
rs11623570	14	102959277	A	C	0.233	-0.012	0.002	1.20E-08	32	421986
rs4886778	15	74225388	A	C	0.494	0.016	0.002	2.90E-19	80	421986
rs4965600	15	100765385	A	G	0.612	-0.010	0.002	4.60E-08	30	421986
rs8034236	15	51271578	T	C	0.625	0.010	0.002	4.20E-08	30	421986
rs72755233	15	100692953	A	G	0.112	-0.031	0.003	7.10E-30	129	421986
rs12917612	15	67491274	A	C	0.232	-0.012	0.002	5.10E-09	34	421986
rs7402983	15	99193276	C	A	0.602	-0.011	0.002	3.40E-10	39	421986
rs10851839	15	71628370	A	T	0.669	0.010	0.002	2.20E-08	31	421986
rs2415128	15	72191073	C	T	0.737	-0.013	0.002	2.30E-11	45	421986
rs4079029	15	83727830	T	C	0.340	0.012	0.002	4.70E-11	43	421986
rs11259936	15	84580582	C	A	0.523	0.023	0.002	3.00E-40	176	421986
rs735830	16	3695354	A	G	0.209	-0.013	0.002	2.80E-10	40	421986
rs2345443	16	78225633	G	A	0.690	-0.012	0.002	1.90E-10	41	421986
rs841217	16	4746392	C	T	0.543	-0.010	0.002	4.10E-09	35	421986
rs30232	16	14401962	A	G	0.583	0.011	0.002	8.20E-11	42	421986

rs4785677	16	89555101	G	A	0.549	-0.011	0.002	1.30E-09	37	421986
rs8062719	16	31002664	G	A	0.635	0.013	0.002	1.40E-12	50	421986
rs3790076	16	69907445	T	G	0.573	-0.020	0.002	6.80E-29	124	421986
rs11641308	16	75312023	C	T	0.655	-0.011	0.002	5.70E-09	34	421986
rs78579285	16	88813060	T	C	0.181	-0.017	0.002	1.00E-14	60	421986
rs78378222	17	7571752	G	T	0.012	0.054	0.008	3.00E-11	44	421986
rs7211143	17	46547381	G	A	0.296	0.011	0.002	2.40E-08	31	421986
rs2005172	17	61996255	C	A	0.640	0.020	0.002	2.30E-27	117	421986
rs113252144	17	62483931	T	C	0.076	0.023	0.003	1.60E-12	50	421986
rs55831773	17	7559037	T	C	0.200	-0.012	0.002	2.20E-08	31	421986
rs77804065	17	43810896	T	C	0.225	-0.030	0.002	2.20E-45	200	421986
rs8069671	17	36826936	T	G	0.390	-0.013	0.002	1.50E-12	50	421986
rs17178377	17	69198133	A	G	0.485	-0.016	0.002	1.50E-19	82	421986
rs571799	17	30292174	T	A	0.187	0.014	0.002	4.40E-10	39	421986
rs9912553	17	79959703	G	C	0.723	0.020	0.002	6.70E-25	106	421986
rs11877758	18	35138110	G	T	0.312	-0.012	0.002	4.80E-10	39	421986
rs62092156	18	42829025	A	G	0.095	0.017	0.003	3.90E-09	35	421986
rs513953	18	8801351	G	A	0.745	0.015	0.002	2.50E-14	58	421986
rs784257	18	53397199	C	T	0.812	-0.012	0.002	3.30E-08	31	421986
rs1668091	18	22290711	C	T	0.317	0.011	0.002	7.80E-09	33	421986
rs60839038	18	20711927	C	A	0.474	0.011	0.002	3.60E-10	39	421986
rs56291455	18	50830973	A	C	0.385	-0.012	0.002	9.80E-11	42	421986
rs157580	19	45395266	A	G	0.606	0.010	0.002	6.50E-09	34	421986
rs12985660	19	46121020	C	T	0.476	-0.010	0.002	1.90E-08	32	421986
rs2602691	19	4951851	G	A	0.450	-0.010	0.002	2.70E-08	31	421986
rs2010492	19	10803395	G	A	0.665	-0.014	0.002	3.30E-14	58	421986
rs73923824	19	29933396	A	C	0.187	0.013	0.002	1.50E-08	32	421986
rs147110934	19	55993436	T	G	0.024	-0.044	0.006	8.30E-15	60	421986
rs11883412	19	42688687	T	G	0.101	-0.019	0.003	4.70E-11	43	421986
rs72976986	19	4050424	A	G	0.190	0.014	0.002	1.30E-09	37	421986
rs62621197	19	8670147	T	C	0.037	-0.057	0.005	1.70E-32	141	421986

rs11699903	20	4019036	A	G	0.123	-0.016	0.003	1.60E-09	36	421986
rs2327790	20	13513712	G	A	0.702	0.011	0.002	3.10E-08	31	421986
rs3091552	20	45440006	G	C	0.736	-0.015	0.002	1.70E-14	59	421986
rs13044144	20	47528808	C	G	0.263	0.016	0.002	1.20E-15	64	421986
rs6119786	20	30827282	A	G	0.157	-0.015	0.002	4.80E-10	39	421986
rs4809328	20	62348327	T	C	0.667	-0.013	0.002	2.80E-12	49	421986
rs34587839	20	32300671	A	G	0.155	-0.017	0.002	4.10E-13	53	421986
rs6140000	20	6435839	G	T	0.498	-0.010	0.002	1.20E-08	32	421986
rs35364051	20	25655264	A	G	0.179	-0.013	0.002	1.10E-08	33	421986
rs6088619	20	33411871	G	A	0.136	0.018	0.003	9.50E-13	51	421986
rs2236610	21	36060668	G	C	0.200	-0.013	0.002	8.90E-09	33	421986
rs11909473	21	16547435	G	A	0.290	0.011	0.002	8.80E-09	33	421986
rs5992929	22	18451977	T	C	0.285	0.015	0.002	4.50E-14	57	421986
rs2412981	22	30600065	C	G	0.908	-0.028	0.003	1.30E-20	87	421986
rs41311445	22	42070374	C	A	0.096	-0.019	0.003	9.70E-11	42	421986

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Chr – chromosome, EA – effect allele, EAF – effect allele frequency, FEV1 – forced expiratory volume in 1 second, MR – Mendelian randomization, N – number, OA – other allele, Pos – position, SNP – single nucleotide polymorphism, SE – standard error.

Supplementary Table SII. Detailed information of the SNPs associated with FVC

SNP	Chr	Pos	EA	OA	EAF	Beta	SE	<i>P</i> value	<i>F</i> statistic	N
rs11122148	1	6848505	A	C	0.157	0.012	0.002	4.20E-08	30	421986
rs9701805	1	51356810	C	G	0.090	0.019	0.003	2.60E-11	44	421986
rs7535275	1	150354210	G	A	0.131	0.014	0.002	2.40E-08	31	421986
rs12402966	1	172203894	A	G	0.213	0.020	0.002	5.00E-24	102	421986
rs3790743	1	19975210	G	A	0.600	-0.010	0.002	1.50E-08	32	421986
rs2807339	1	22578063	C	T	0.758	0.013	0.002	3.40E-11	44	421986
rs10874340	1	83259080	T	G	0.493	0.010	0.002	3.10E-10	40	421986
rs1040457	1	176802119	T	C	0.505	0.010	0.002	1.30E-08	32	421986
rs4951407	1	204558070	G	T	0.661	0.012	0.002	2.60E-11	44	421986
rs12407259	1	208013662	C	G	0.092	0.016	0.003	2.80E-08	31	421986
rs11588312	1	2199057	T	C	0.071	-0.026	0.003	6.50E-16	65	421986
rs9442580	1	9339467	T	C	0.129	0.014	0.002	8.80E-09	33	421986
rs3806443	1	113249486	G	C	0.265	0.011	0.002	5.10E-09	34	421986
rs6671370	1	218597044	A	G	0.287	0.017	0.002	4.70E-22	93	421986
rs9435731	1	17306029	A	C	0.519	0.024	0.002	3.20E-47	208	421986
rs1474647	1	22441865	T	C	0.551	-0.013	0.002	2.60E-16	67	421986
rs2885697	1	41544279	T	G	0.665	-0.021	0.002	7.00E-33	143	421986
rs4650619	1	78694556	T	C	0.658	0.011	0.002	1.80E-10	41	421986
rs12139563	1	150578241	G	A	0.565	-0.015	0.002	3.40E-19	80	421986
rs3814316	1	155149718	A	G	0.368	-0.009	0.002	2.70E-08	31	421986
rs74767794	1	184006128	G	A	0.316	0.012	0.002	4.60E-11	43	421986
rs2821334	1	200093887	T	G	0.444	0.010	0.002	4.00E-09	35	421986
rs6658835	1	218520995	G	A	0.269	0.019	0.002	9.00E-25	106	421986
rs77328429	1	218837881	A	G	0.114	0.019	0.003	2.40E-13	54	421986

rs2219320	1	26803430	C	T	0.254	-0.015	0.002	1.90E-16	68	421986
rs28391281	1	38408974	C	T	0.457	-0.011	0.002	4.70E-11	43	421986
rs10789246	1	68360969	C	T	0.301	-0.012	0.002	4.70E-12	48	421986
rs11164653	1	103464210	C	T	0.591	-0.011	0.002	9.40E-12	46	421986
rs10916137	1	227581308	A	G	0.171	-0.016	0.002	1.50E-13	55	421986
rs17400325	2	178565913	C	T	0.042	0.034	0.004	1.90E-16	68	421986
rs2882485	2	202980253	G	A	0.528	-0.012	0.002	1.80E-12	50	421986
rs7562385	2	218583945	T	C	0.896	0.021	0.003	1.10E-14	60	421986
rs2168704	2	219142492	A	G	0.562	0.011	0.002	1.10E-10	42	421986
rs183587141	2	227368066	T	C	0.016	-0.054	0.007	4.00E-16	66	421986
rs10202701	2	232328681	T	C	0.542	0.012	0.002	2.20E-12	49	421986
rs4497878	2	241752685	C	T	0.715	-0.015	0.002	6.50E-16	65	421986
rs2286325	2	242053599	C	G	0.081	0.020	0.003	1.00E-11	46	421986
rs7632	2	10194487	C	T	0.513	-0.010	0.002	2.20E-10	40	421986
rs848606	2	36770736	T	G	0.327	-0.014	0.002	6.10E-15	61	421986
rs56107042	2	85686821	G	C	0.024	-0.030	0.005	2.70E-08	31	421986
rs72904209	2	157046432	C	T	0.134	-0.015	0.002	4.90E-10	39	421986
rs668844	2	217021602	A	C	0.482	0.009	0.002	8.50E-09	33	421986
rs183743021	2	97283676	C	T	0.024	-0.036	0.006	4.10E-11	44	421986
rs876531	2	242500662	T	C	0.456	-0.018	0.002	8.10E-29	124	421986
rs1007194	2	23889287	C	G	0.459	0.013	0.002	5.40E-16	66	421986
rs35943760	2	47011755	T	A	0.468	0.011	0.002	2.20E-11	45	421986
rs309137	2	136765951	C	T	0.227	0.015	0.002	2.80E-15	62	421986
rs62194733	2	161776671	T	C	0.118	-0.016	0.003	2.90E-10	40	421986
rs12052537	2	172369108	A	C	0.206	-0.015	0.002	8.10E-13	51	421986
rs11896404	2	188284127	T	C	0.389	0.010	0.002	8.00E-09	33	421986

rs12614240	2	199753674	T	C	0.434	-0.016	0.002	3.90E-21	89	421986
rs2433733	2	230816703	A	G	0.678	0.010	0.002	1.10E-08	33	421986
rs13023718	2	173612	G	A	0.667	0.010	0.002	8.50E-09	33	421986
rs754537	2	25176277	T	A	0.494	0.018	0.002	1.80E-27	118	421986
rs3791679	2	56096892	G	A	0.227	-0.042	0.002	2.70E-101	457	421986
rs12713685	2	70223101	C	T	0.374	-0.011	0.002	7.40E-11	42	421986
rs55707322	2	72358959	A	C	0.164	0.013	0.002	4.60E-09	34	421986
rs7638143	3	13806135	A	G	0.582	-0.014	0.002	4.90E-17	70	421986
rs4678778	3	33257434	G	A	0.103	0.016	0.003	2.40E-09	36	421986
rs9821691	3	72396902	T	G	0.429	-0.013	0.002	3.20E-14	58	421986
rs6762578	3	128992047	A	G	0.778	0.020	0.002	6.10E-23	97	421986
rs2871960	3	141121814	C	A	0.445	0.020	0.002	7.10E-33	143	421986
rs582780	3	172121443	G	A	0.423	0.013	0.002	6.80E-14	56	421986
rs61732778	3	187443314	A	G	0.071	0.019	0.003	6.10E-09	34	421986
rs6803045	3	4731586	A	G	0.583	0.010	0.002	4.90E-10	39	421986
rs141829833	3	51776104	T	C	0.023	0.033	0.006	4.20E-09	35	421986
rs62275646	3	156358192	T	C	0.051	-0.025	0.004	2.40E-11	45	421986
rs12486605	3	57706503	C	T	0.428	0.009	0.002	4.00E-08	30	421986
rs12152266	3	196911361	T	C	0.274	0.014	0.002	5.90E-15	61	421986
rs3732987	3	8586465	A	C	0.525	0.011	0.002	1.70E-10	41	421986
rs35480566	3	71583177	G	A	0.440	0.015	0.002	1.50E-19	82	421986
rs1656373	3	158273521	T	C	0.557	-0.017	0.002	2.30E-25	108	421986
rs2194411	3	185548663	A	G	0.128	0.028	0.002	4.20E-29	125	421986
rs4909017	3	32937596	T	C	0.558	0.013	0.002	1.40E-14	59	421986
rs57072412	3	33216357	A	G	0.383	0.011	0.002	1.80E-10	41	421986
rs55786114	3	48982335	T	C	0.073	-0.023	0.003	2.30E-13	54	421986

rs1608592	3	98881970	A	G	0.262	-0.019	0.002	6.30E-24	102	421986
rs6441103	3	156643385	A	T	0.050	-0.023	0.004	8.00E-10	38	421986
rs1344555	3	169300219	T	C	0.203	-0.018	0.002	1.70E-19	82	421986
rs13112742	4	124888059	A	G	0.171	-0.013	0.002	6.30E-09	34	421986
rs11938781	4	17924734	C	T	0.165	-0.037	0.002	2.30E-61	273	421986
rs28925904	4	144359490	T	C	0.025	-0.034	0.005	7.20E-11	42	421986
rs12641030	4	57803505	G	A	0.468	-0.011	0.002	1.80E-11	45	421986
rs344133	4	77649164	A	G	0.614	0.011	0.002	2.90E-11	44	421986
rs72673891	4	106814302	G	A	0.068	0.033	0.003	3.30E-23	98	421986
rs28409044	4	166337461	A	C	0.334	0.013	0.002	1.50E-13	55	421986
rs1054661	4	3495941	C	T	0.343	0.010	0.002	4.00E-09	35	421986
rs2131354	4	145599908	A	G	0.526	0.023	0.002	1.50E-44	196	421986
rs3828559	4	184211030	G	A	0.758	0.012	0.002	9.10E-10	38	421986
rs13108218	4	3443931	G	A	0.615	0.015	0.002	2.60E-18	76	421986
rs6849555	4	25150890	C	G	0.201	0.014	0.002	1.10E-10	42	421986
rs4693974	4	89810395	G	A	0.574	0.012	0.002	4.00E-12	48	421986
rs28444681	4	100449973	A	C	0.255	0.011	0.002	1.20E-09	37	421986
rs72665944	4	106181570	A	G	0.076	-0.022	0.003	2.10E-12	49	421986
rs1818116	5	32841934	G	A	0.381	-0.010	0.002	1.10E-08	33	421986
rs12054747	5	52786075	T	C	0.216	0.011	0.002	1.80E-08	32	421986
rs55778236	5	115022380	C	T	0.279	0.014	0.002	1.50E-13	55	421986
rs246242	5	129059497	G	A	0.924	-0.019	0.003	2.00E-09	36	421986
rs72643433	5	158364449	A	G	0.252	-0.020	0.002	1.40E-25	109	421986
rs149542	5	53461696	A	G	0.376	-0.011	0.002	1.50E-11	45	421986
rs13156484	5	122653399	A	G	0.472	-0.014	0.002	1.20E-17	73	421986
rs7712535	5	133939357	C	T	0.115	-0.017	0.003	4.20E-11	43	421986

rs4700485	5	56034207	G	A	0.720	0.011	0.002	3.20E-09	35	421986
rs425102	5	77396400	G	T	0.241	-0.019	0.002	3.80E-24	103	421986
rs56346354	5	122076344	A	G	0.430	-0.011	0.002	7.40E-11	42	421986
rs6894631	5	133864436	T	C	0.160	0.013	0.002	5.70E-09	34	421986
rs111365325	5	170865229	T	C	0.231	-0.019	0.002	1.70E-21	91	421986
rs55758152	5	171317318	A	G	0.326	0.011	0.002	9.10E-10	38	421986
rs1966265	5	176516631	A	G	0.245	0.015	0.002	9.60E-16	65	421986
rs55681913	5	42687629	C	T	0.106	0.021	0.003	1.80E-14	59	421986
rs59032271	5	148618749	T	C	0.468	-0.010	0.002	3.90E-10	39	421986
rs4700662	5	64392906	T	C	0.664	0.013	0.002	9.10E-14	56	421986
rs6886191	5	77157607	G	A	0.559	0.011	0.002	1.80E-11	45	421986
rs985296	5	88377644	A	G	0.385	-0.011	0.002	5.60E-11	43	421986
rs75421844	5	108220554	C	T	0.084	0.027	0.003	6.90E-20	83	421986
rs35668185	5	168256455	C	T	0.208	-0.012	0.002	1.00E-08	33	421986
rs6906411	6	81913276	A	G	0.449	-0.010	0.002	9.40E-09	33	421986
rs575837	6	116759974	G	A	0.785	0.013	0.002	2.00E-10	40	421986
rs6923431	6	129824754	C	A	0.735	0.015	0.002	6.80E-16	65	421986
rs6902771	6	152157881	T	C	0.463	0.014	0.002	2.50E-17	72	421986
rs3253	6	169616112	T	C	0.314	0.013	0.002	3.50E-14	57	421986
rs9379084	6	7231843	A	G	0.116	-0.025	0.003	1.70E-21	91	421986
rs6919321	6	33724004	A	G	0.608	0.011	0.002	1.10E-10	42	421986
rs3734254	6	35395010	T	C	0.791	0.021	0.002	7.60E-25	106	421986
rs723588	6	81056634	C	T	0.142	0.019	0.002	1.20E-16	69	421986
rs1490384	6	126851160	T	C	0.500	0.025	0.002	5.20E-51	226	421986
rs6907284	6	131183519	C	T	0.697	-0.012	0.002	7.00E-11	43	421986
rs9496317	6	142600835	C	T	0.441	-0.011	0.002	1.20E-10	42	421986

rs879098	6	2507448	G	A	0.399	-0.010	0.002	2.20E-09	36	421986
rs4713135	6	28039586	A	G	0.237	-0.016	0.002	8.20E-17	69	421986
rs28821528	6	32528913	G	A	0.628	-0.014	0.002	1.80E-11	45	421986
rs2780226	6	34199092	T	C	0.911	-0.043	0.003	7.00E-50	221	421986
rs2181246	6	76543318	A	T	0.315	-0.011	0.002	2.50E-09	36	421986
rs9480936	6	109679430	T	G	0.408	-0.015	0.002	1.90E-18	77	421986
rs55775505	6	22057566	T	C	0.315	-0.015	0.002	5.20E-17	70	421986
rs9391253	6	105367616	T	A	0.320	0.012	0.002	2.00E-11	45	421986
rs1415701	6	130345835	A	G	0.268	-0.023	0.002	1.00E-34	151	421986
rs661857	6	158658788	C	T	0.482	0.015	0.002	1.70E-19	82	421986
rs4959021	6	31981146	C	T	0.814	-0.031	0.002	2.80E-44	195	421986
rs56099233	6	141775843	T	G	0.203	0.012	0.002	6.20E-09	34	421986
rs6937121	6	142707133	G	T	0.289	-0.023	0.002	4.20E-38	167	421986
rs34810766	6	144937315	T	C	0.189	0.012	0.002	4.00E-09	35	421986
rs11967850	6	155451722	T	C	0.204	-0.012	0.002	7.70E-09	33	421986
rs6977081	7	150542515	T	G	0.334	0.016	0.002	1.60E-19	82	421986
rs1474419	7	6692605	C	T	0.578	-0.009	0.002	1.80E-08	32	421986
rs644570	7	18385738	A	G	0.632	0.011	0.002	7.60E-10	38	421986
rs2717329	7	19062775	A	G	0.295	0.014	0.002	7.90E-15	60	421986
rs4728358	7	135250270	T	C	0.687	-0.011	0.002	3.00E-09	35	421986
rs13229167	7	23591862	A	G	0.271	-0.021	0.002	1.30E-28	123	421986
rs6965423	7	82516530	C	T	0.509	-0.011	0.002	4.50E-11	43	421986
rs42038	7	92243719	T	C	0.299	0.016	0.002	1.70E-19	82	421986
rs798551	7	2760338	T	A	0.289	-0.017	0.002	3.50E-20	85	421986
rs1637746	7	2233871	A	G	0.227	-0.011	0.002	1.80E-08	32	421986
rs6462426	7	32905809	C	T	0.945	-0.021	0.004	6.30E-09	34	421986

rs723149	7	46577056	G	A	0.563	-0.014	0.002	5.30E-18	75	421986
rs9886260	7	140683398	A	G	0.723	-0.015	0.002	4.70E-16	66	421986
rs2468964	8	38333062	G	T	0.601	0.010	0.002	8.10E-09	33	421986
rs17387279	8	69570332	G	T	0.181	-0.014	0.002	1.90E-11	45	421986
rs76563195	8	120476552	G	C	0.243	-0.014	0.002	1.40E-13	55	421986
rs4735766	8	78099782	T	G	0.285	0.015	0.002	2.40E-16	67	421986
rs784808	8	97406226	C	T	0.556	0.010	0.002	1.40E-09	37	421986
rs10283100	8	120596023	G	A	0.944	0.030	0.004	1.30E-16	68	421986
rs16905189	8	135598132	G	C	0.367	-0.016	0.002	1.10E-20	87	421986
rs145948054	8	145506870	A	G	0.160	0.012	0.002	4.50E-08	30	421986
rs7012637	8	9173209	A	G	0.474	-0.010	0.002	9.60E-10	37	421986
rs7815955	8	130719567	T	A	0.203	-0.024	0.002	1.10E-31	137	421986
rs72656010	8	57122215	C	T	0.132	-0.031	0.002	5.60E-37	161	421986
rs76785101	8	32305121	T	C	0.059	-0.022	0.003	2.50E-10	40	421986
rs62515437	8	57160328	T	G	0.225	0.016	0.002	1.50E-15	64	421986
rs2355595	8	64780939	T	C	0.353	0.010	0.002	2.20E-08	31	421986
rs12348523	9	34711635	A	G	0.156	0.015	0.002	5.90E-11	43	421986
rs10797116	9	92191467	C	T	0.542	-0.012	0.002	1.90E-13	54	421986
rs7027103	9	119126101	C	G	0.204	-0.017	0.002	5.70E-16	66	421986
rs2760402	9	1533453	C	A	0.649	0.010	0.002	1.50E-08	32	421986
rs1984246	9	15898553	A	C	0.423	0.013	0.002	9.70E-15	60	421986
rs13284734	9	113612759	C	T	0.020	-0.035	0.006	3.00E-09	35	421986
rs12684650	9	139110654	T	C	0.317	-0.021	0.002	5.50E-32	139	421986
rs28427480	9	98264942	C	A	0.094	0.040	0.003	1.50E-44	196	421986
rs1516890	9	108989399	A	G	0.470	-0.011	0.002	4.80E-12	48	421986
rs1983753	9	4160364	A	G	0.851	0.016	0.002	2.30E-11	45	421986

rs28446901	9	136308796	G	C	0.155	-0.014	0.002	7.60E-10	38	421986
rs7029491	9	16986112	G	C	0.334	0.013	0.002	1.80E-14	59	421986
rs35344761	9	78510823	A	C	0.122	-0.019	0.003	2.20E-14	58	421986
rs7854962	9	96900505	G	C	0.213	-0.018	0.002	1.00E-18	78	421986
rs7852321	9	99100241	C	T	0.282	0.010	0.002	1.60E-08	32	421986
rs11000765	10	75512452	C	G	0.720	-0.011	0.002	7.50E-10	38	421986
rs7907533	10	78617536	A	C	0.549	0.010	0.002	2.10E-09	36	421986
rs1250535	10	81016112	G	C	0.675	-0.012	0.002	2.20E-11	45	421986
rs2420991	10	123857554	G	T	0.157	0.013	0.002	1.10E-08	33	421986
rs12571363	10	124230612	A	C	0.107	-0.030	0.003	5.40E-29	125	421986
rs663378	10	28975214	A	G	0.834	-0.015	0.002	9.50E-12	46	421986
rs2808096	10	32128611	G	A	0.214	0.011	0.002	3.60E-08	30	421986
rs7916879	10	12300790	A	G	0.369	-0.011	0.002	1.80E-10	41	421986
rs10761495	10	62171796	C	A	0.597	0.012	0.002	2.40E-12	49	421986
rs2648725	10	93015079	A	T	0.213	0.017	0.002	1.40E-17	73	421986
rs12358810	10	94917413	A	G	0.392	-0.013	0.002	5.80E-15	61	421986
rs56192823	10	104707727	A	G	0.040	0.027	0.004	1.50E-10	41	421986
rs11191818	10	105591779	G	T	0.516	0.011	0.002	4.40E-12	48	421986
rs7105777	11	33041338	T	C	0.632	-0.011	0.002	2.40E-10	40	421986
rs145183935	11	66802687	C	T	0.073	-0.020	0.003	6.10E-10	38	421986
rs12790261	11	66988048	A	C	0.082	-0.045	0.003	1.30E-50	224	421986
rs880610	11	68191947	A	G	0.167	-0.015	0.002	4.20E-12	48	421986
rs11608103	11	125627917	A	G	0.131	0.014	0.002	2.30E-08	31	421986
rs61884008	11	14413213	A	G	0.055	0.024	0.004	2.00E-11	45	421986
rs7120175	11	30490453	C	G	0.451	-0.009	0.002	1.70E-08	32	421986
rs2118022	11	89316133	C	T	0.360	-0.011	0.002	2.50E-11	45	421986

rs4244808	11	2163110	G	T	0.460	0.012	0.002	2.20E-12	49	421986
rs10892061	11	116886114	T	C	0.656	0.010	0.002	2.90E-09	35	421986
rs67232546	11	128398938	T	C	0.213	-0.012	0.002	2.50E-09	36	421986
rs2679053	11	43605304	G	A	0.599	0.009	0.002	2.40E-08	31	421986
rs75166711	11	46154590	A	G	0.145	0.015	0.002	5.30E-11	43	421986
rs35805829	11	47805478	C	T	0.347	-0.013	0.002	1.10E-14	60	421986
rs6487686	12	28701295	C	T	0.773	-0.017	0.002	2.50E-18	76	421986
rs4759316	12	54388473	A	G	0.571	0.010	0.002	3.20E-10	40	421986
rs7956181	12	50056339	C	T	0.096	0.017	0.003	7.40E-10	38	421986
rs10861686	12	107383979	T	C	0.572	-0.009	0.002	2.10E-08	31	421986
rs7980065	12	1347086	G	T	0.436	-0.011	0.002	1.50E-10	41	421986
rs76895963	12	4384844	G	T	0.021	0.071	0.006	4.60E-29	125	421986
rs7309492	12	28073172	A	T	0.568	0.011	0.002	2.00E-11	45	421986
rs11049229	12	28089820	T	A	0.054	0.020	0.004	4.50E-08	30	421986
rs10878321	12	66119783	G	T	0.138	0.015	0.002	8.20E-10	38	421986
rs7968682	12	66371880	T	G	0.518	-0.025	0.002	1.40E-50	224	421986
rs11107119	12	93983132	A	T	0.220	0.023	0.002	3.50E-32	139	421986
rs3858603	12	94207802	A	G	0.502	-0.012	0.002	4.60E-14	57	421986
rs5742643	12	102837863	C	T	0.752	-0.015	0.002	4.80E-15	61	421986
rs11060406	12	123339117	T	C	0.037	-0.027	0.004	7.10E-10	38	421986
rs2645977	12	84009188	A	G	0.357	0.010	0.002	6.60E-09	34	421986
rs35506	12	115500691	A	T	0.716	0.014	0.002	9.10E-14	56	421986
rs67551338	12	3393100	T	C	0.061	0.025	0.003	8.40E-13	51	421986
rs10771751	12	30802799	A	T	0.516	0.014	0.002	1.10E-17	73	421986
rs12099669	12	46783653	A	G	0.696	0.013	0.002	8.10E-13	51	421986
rs11575234	12	56744276	G	C	0.068	0.019	0.003	2.20E-09	36	421986

rs9988963	12	122991478	G	C	0.737	0.014	0.002	4.20E-13	53	421986
rs803765	13	71647588	A	C	0.346	-0.013	0.002	6.40E-15	61	421986
rs8001781	13	92019155	G	A	0.662	-0.012	0.002	9.30E-12	46	421986
rs12323020	13	21570912	C	T	0.113	-0.014	0.003	3.10E-08	31	421986
rs2812208	13	50707087	C	G	0.021	0.083	0.006	1.40E-46	205	421986
rs12430764	13	93896935	A	G	0.513	-0.010	0.002	8.10E-10	38	421986
rs3116605	13	51117562	C	T	0.215	-0.015	0.002	1.80E-14	59	421986
rs558107	13	30172458	G	A	0.588	-0.011	0.002	6.40E-11	43	421986
rs2039092	13	115010330	T	G	0.142	-0.014	0.002	1.00E-08	33	421986
rs7359156	14	37488610	G	A	0.209	-0.014	0.002	1.30E-11	46	421986
rs36226649	14	24835500	C	T	0.067	0.026	0.003	1.00E-15	64	421986
rs17197170	14	21977962	G	A	0.170	0.013	0.002	1.50E-08	32	421986
rs10141786	14	74817418	G	A	0.596	-0.014	0.002	7.20E-16	65	421986
rs11621587	14	93098339	C	G	0.184	0.021	0.002	1.00E-23	101	421986
rs28929474	14	94844947	T	C	0.020	0.049	0.006	1.40E-16	68	421986
rs56144019	14	102949731	A	G	0.234	-0.013	0.002	6.90E-11	43	421986
rs1555211	14	61025791	T	C	0.292	0.014	0.002	1.70E-15	63	421986
rs72755233	15	100692953	A	G	0.112	-0.034	0.003	9.60E-39	169	421986
rs3743347	15	67547301	A	C	0.232	-0.017	0.002	3.40E-18	76	421986
rs11259936	15	84580582	C	A	0.523	0.017	0.002	6.60E-26	111	421986
rs7176647	15	99177595	G	C	0.600	-0.012	0.002	2.80E-13	53	421986
rs4924413	15	40348697	A	G	0.283	0.011	0.002	2.70E-09	35	421986
rs11637681	15	40387971	G	A	0.276	-0.011	0.002	5.60E-10	38	421986
rs2165241	15	74222202	C	T	0.509	0.020	0.002	4.70E-33	143	421986
rs7172622	15	83970546	G	A	0.566	0.009	0.002	3.10E-08	31	421986
rs8033776	15	51108078	G	A	0.468	0.011	0.002	3.50E-11	44	421986

rs12385976	15	89404092	C	T	0.044	-0.033	0.004	3.20E-16	67	421986
rs4302014	15	100778771	C	G	0.508	-0.011	0.002	6.50E-11	43	421986
rs11632611	15	72095711	A	G	0.658	-0.011	0.002	7.70E-11	42	421986
rs76219171	16	50188929	A	G	0.061	-0.019	0.003	3.00E-08	31	421986
rs78579285	16	88813060	T	C	0.181	-0.015	0.002	4.60E-12	48	421986
rs12051245	16	783865	C	T	0.232	0.013	0.002	1.20E-10	42	421986
rs841212	16	4749915	G	C	0.541	-0.010	0.002	6.80E-10	38	421986
rs78501725	16	8615749	A	C	0.116	-0.015	0.003	4.10E-09	35	421986
rs246185	16	14395432	C	T	0.322	0.013	0.002	1.30E-12	50	421986
rs11645649	16	75211347	G	C	0.594	0.011	0.002	3.40E-10	39	421986
rs4785677	16	89555101	G	A	0.549	-0.010	0.002	2.40E-09	36	421986
rs74483355	16	30836430	T	C	0.112	-0.020	0.003	6.10E-14	56	421986
rs3790076	16	69907445	T	G	0.573	-0.021	0.002	5.90E-36	157	421986
rs735830	16	3695354	A	G	0.209	-0.016	0.002	8.70E-16	65	421986
rs9745989	16	49888931	C	T	0.628	0.011	0.002	6.50E-10	38	421986
rs11545700	17	27044482	A	C	0.125	-0.014	0.002	7.00E-09	34	421986
rs150032562	17	43117615	A	C	0.050	0.026	0.004	4.10E-12	48	421986
rs77804065	17	43810896	T	C	0.225	-0.029	0.002	1.30E-49	219	421986
rs4794006	17	47042117	A	G	0.555	-0.010	0.002	2.70E-10	40	421986
rs12452590	17	60720058	G	T	0.362	0.011	0.002	1.40E-10	41	421986
rs11867847	17	63560153	G	A	0.506	0.010	0.002	3.00E-09	35	421986
rs35344256	17	79934194	A	C	0.305	-0.017	0.002	2.20E-22	95	421986
rs55831773	17	7559037	T	C	0.200	-0.014	0.002	7.60E-12	47	421986
rs11079810	17	46227846	T	C	0.103	0.018	0.003	1.30E-11	46	421986
rs2007530	17	62764047	T	C	0.174	0.020	0.002	1.40E-20	86	421986
rs8064926	17	79413170	G	A	0.208	-0.012	0.002	2.80E-09	35	421986

rs78378222	17	7571752	G	T	0.012	0.060	0.008	4.30E-15	62	421986
rs13723	17	27941886	G	A	0.492	-0.010	0.002	1.00E-09	37	421986
rs2005172	17	61996255	C	A	0.640	0.022	0.002	1.20E-36	160	421986
rs6501431	17	68976415	T	C	0.784	0.013	0.002	9.70E-11	42	421986
rs1299113	18	196465	A	G	0.524	0.010	0.002	5.60E-10	38	421986
rs76084836	18	56649060	T	C	0.018	-0.034	0.006	3.80E-08	30	421986
rs11877758	18	35138110	G	T	0.312	-0.011	0.002	1.50E-09	37	421986
rs11664552	18	45892913	C	T	0.300	0.010	0.002	8.80E-09	33	421986
rs10853628	18	50770638	C	T	0.385	-0.013	0.002	2.10E-15	63	421986
rs60839038	18	20711927	C	A	0.474	0.013	0.002	7.30E-14	56	421986
rs1668091	18	22290711	C	T	0.317	0.012	0.002	2.60E-12	49	421986
rs2602691	19	4951851	G	A	0.450	-0.011	0.002	6.00E-11	43	421986
rs12985660	19	46121020	C	T	0.476	-0.010	0.002	4.10E-10	39	421986
rs72976986	19	4050424	A	G	0.190	0.016	0.002	9.80E-14	55	421986
rs62621197	19	8670147	T	C	0.037	-0.068	0.005	9.80E-51	224	421986
rs698748	19	1424888	G	A	0.581	0.009	0.002	2.50E-08	31	421986
rs73923824	19	29933396	A	C	0.187	0.012	0.002	2.00E-08	31	421986
rs147110934	19	55993436	T	G	0.024	-0.046	0.005	9.10E-18	74	421986
rs8107719	19	10804389	C	T	0.665	-0.013	0.002	7.00E-14	56	421986
rs11668582	19	41127813	T	C	0.391	0.014	0.002	2.80E-16	67	421986
rs76660472	19	42773831	C	G	0.078	-0.017	0.003	1.20E-08	32	421986
rs157595	19	45425460	G	A	0.616	0.012	0.002	1.90E-11	45	421986
rs6140000	20	6435839	G	T	0.498	-0.010	0.002	2.60E-09	35	421986
rs55962189	20	21242161	T	A	0.299	0.011	0.002	3.40E-10	39	421986
rs2273101	20	47538333	T	C	0.246	0.021	0.002	2.40E-28	122	421986
rs11698277	20	45502865	T	C	0.320	0.016	0.002	1.40E-19	82	421986

rs2315007	20	62343845	C	T	0.667	-0.015	0.002	4.00E-17	71	421986
rs6107411	20	4091993	G	A	0.165	0.013	0.002	1.10E-08	33	421986
rs73125628	20	20066701	T	C	0.279	-0.011	0.002	4.30E-09	35	421986
rs34587839	20	32300671	A	G	0.155	-0.019	0.002	3.80E-17	71	421986
rs6088619	20	33411871	G	A	0.136	0.018	0.002	4.10E-13	53	421986
rs2186288	21	36069867	A	G	0.370	-0.011	0.002	7.10E-11	42	421986
rs11909473	21	16547435	G	A	0.290	0.011	0.002	3.30E-09	35	421986
rs55906059	22	42184143	T	C	0.094	-0.016	0.003	3.00E-08	31	421986
rs5763821	22	30549071	C	A	0.391	0.014	0.002	2.10E-15	63	421986
rs5992929	22	18451977	T	C	0.285	0.011	0.002	3.40E-09	35	421986

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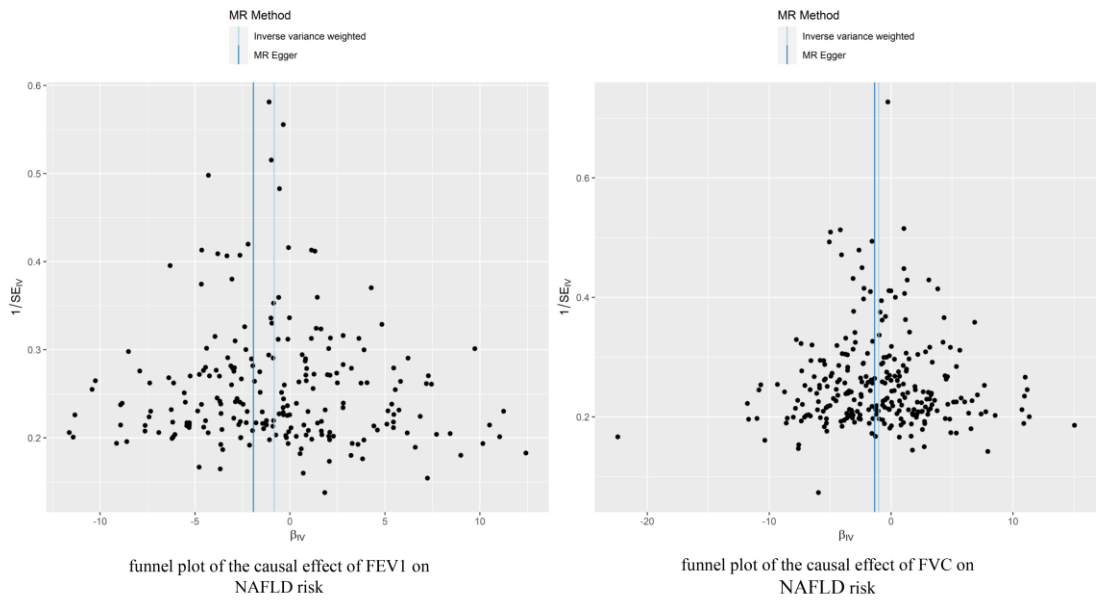
Chr – chromosome, EA – effect allele, EAF – effect allele frequency, FVC – forced vital capacity, MR – Mendelian randomization, N – number, OA – other allele, Pos – position, SNP – single nucleotide polymorphism, SE – standard error.

Supplementary Table SIII. Detailed information of the SNPs associated with NAFLD

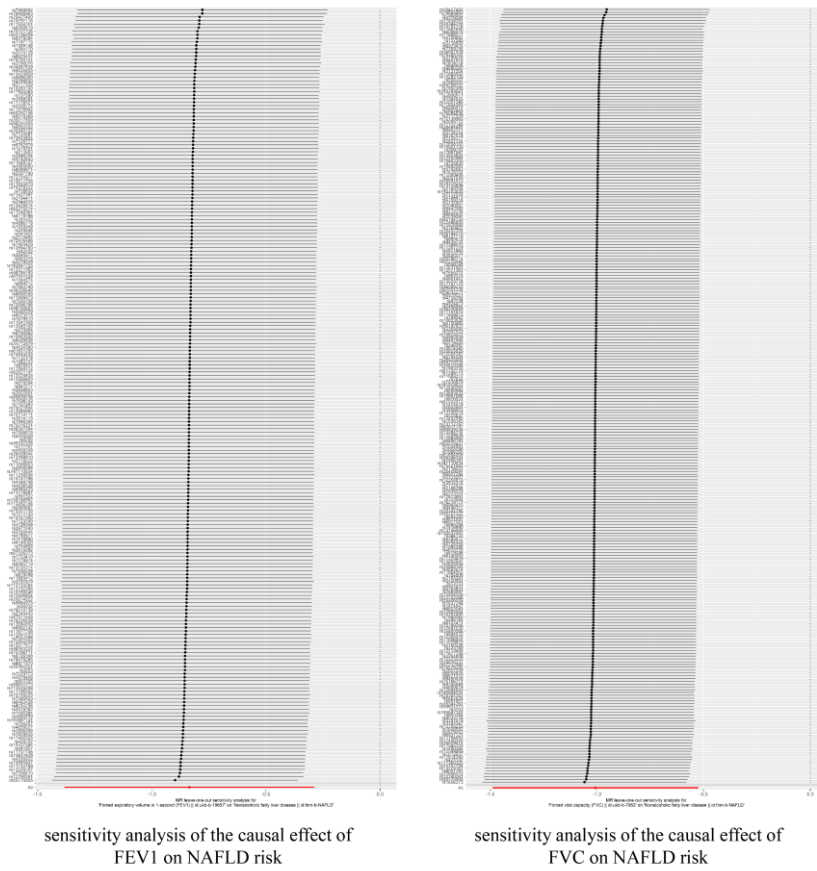
SNP	Chr	Pos	EA	OA	EAF	Beta	SE	<i>P</i> value	<i>F</i> statistic	N
rs146090367	1	21437248	G	C	0.026	0.7689	0.1608	1.74E-06	23	218792
rs148887741	2	178283018	G	C	0.003	2.737	0.5582	9.43E-07	24	218792
rs72882094	2	171034900	T	G	0.117	0.4132	0.0769	7.63E-08	29	218792
rs35123119	2	17516717	T	G	0.015	0.9784	0.2161	5.98E-06	20	218792
rs113149015	4	597021	T	C	0.040	0.593	0.13	5.06E-06	21	218792
rs2220228	6	155497657	T	C	0.135	0.3324	0.0723	4.27E-06	21	218792
rs78305825	7	155277774	C	T	0.048	0.6329	0.1197	1.25E-07	28	218792
rs17135009	7	4690533	T	C	0.022	0.7946	0.1748	5.50E-06	21	218792
rs112875651	8	126506694	A	G	0.387	-0.2365	0.0493	1.63E-06	23	218792
rs141502774	8	54042319	G	A	0.008	1.4053	0.3091	5.46E-06	21	218792
rs13288278	9	84597025	C	T	0.101	0.3663	0.0811	6.26E-06	20	218792
rs75025168	11	42124131	A	G	0.019	0.9714	0.1929	4.76E-07	25	218792
rs17086047	13	28402382	T	A	0.100	0.3626	0.081	7.65E-06	20	218792
rs75635096	16	83784618	G	A	0.023	0.809	0.1719	2.52E-06	22	218792
rs56195589	17	78455003	C	T	0.149	0.3191	0.0684	3.10E-06	22	218792
rs72983431	19	2115689	A	G	0.008	1.4469	0.3004	1.46E-06	23	218792
rs8100204	19	19393714	A	G	0.160	0.4365	0.068	1.37E-10	41	218792
rs738408	22	44324730	T	C	0.227	0.6125	0.0605	4.46E-24	102	218792
rs4823112	22	44446490	T	C	0.091	0.3827	0.085	6.79E-06	20	218792

Chr – chromosome, EA – effect allele, EAF – effect allele frequency, NAFLD – nonalcoholic fatty liver disease, N – number, OA – other allele, Pos – position, SNP – single nucleotide polymorphism, SE – standard error.

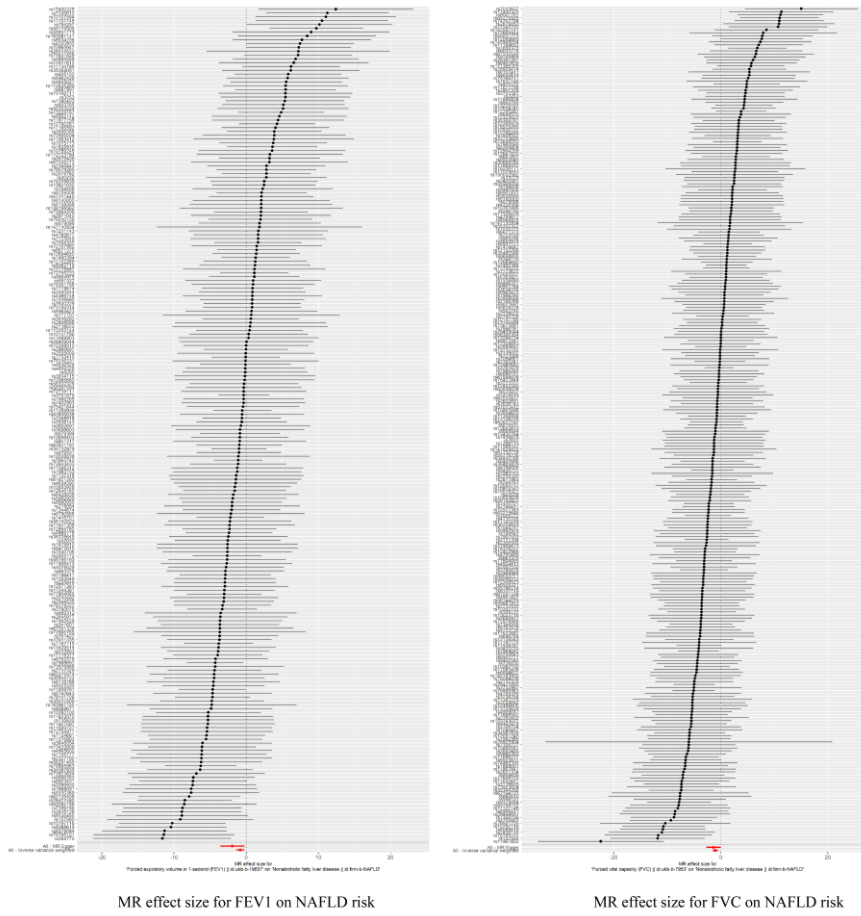
Supplementary Figure S1. Funnel plots of the causal effects of lung function on the risk of NAFLD



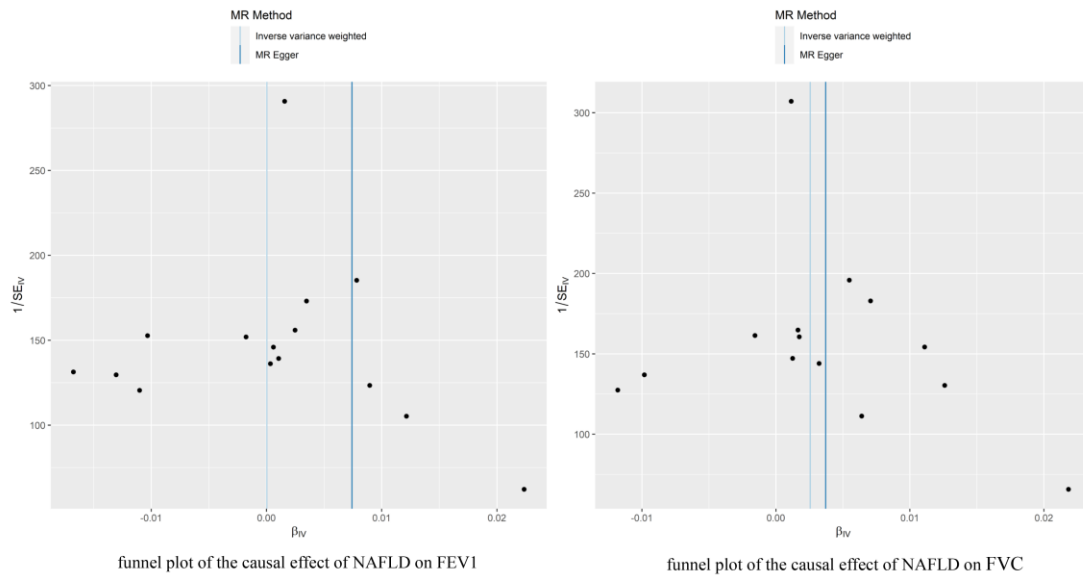
Supplementary Figure S2. Leave-one-out sensitivity analyses of the causal effects of lung function on the risk of NAFLD



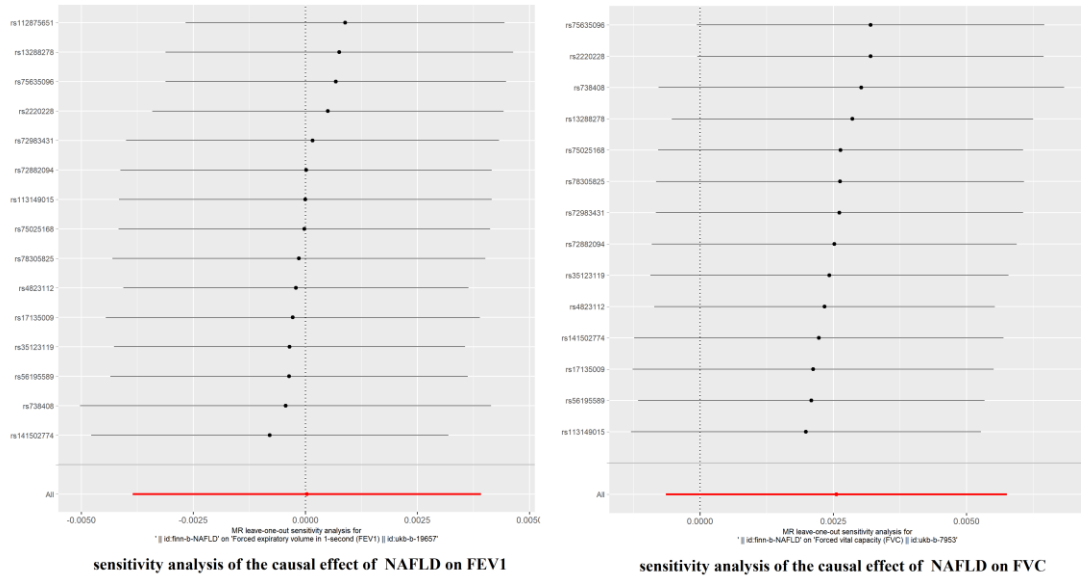
Supplementary Figure S3. Forest plots of the causal effects of lung function on the risk of NAFLD



Supplementary Figure S4. Funnel plots of the causal effects of NAFLD on the lung function



Supplementary Figure S5. Leave-one-out sensitivity analyses of the causal effects of NAFLD on the lung function



Supplementary Figure S6. Forest plots of the causal effects of NAFLD on the lung function

