

	baseMean	log2FoldChange	lfcSE	stat	pvalue	padj
LGALS7B	11.97	-3.892	0.906	-4.294	1.75E-05	1
IL1R2	207.90	-2.421	0.611	-3.963	7.41E-05	1
TFCP2L1	391.84	-1.321	0.346	-3.818	1.35E-04	1
ACTA1	5.95	1.768	0.463	3.814	1.37E-04	1
AL109918.1	56.64	0.786	0.207	3.797	1.47E-04	1
PRAME	2.90	3.032	0.799	3.792	1.49E-04	1
AC134879.2	2.52	2.771	0.744	3.725	1.96E-04	1
BMPR1APS1	4.71	-2.354	0.662	-3.555	3.77E-04	1
UQCRHL	36.95	-0.638	0.179	-3.553	3.81E-04	1
AC011455.1	3.90	1.380	0.396	3.488	4.87E-04	1
HDAC5	439.10	0.487	0.140	3.472	5.17E-04	1
PGM5P4-AS1	9.57	0.832	0.241	3.456	5.49E-04	1
KLHL2	331.46	-0.469	0.136	-3.445	5.70E-04	1
ACTC1	11.99	1.979	0.578	3.422	6.22E-04	1
AL079342.3	2.96	-2.026	0.596	-3.399	6.78E-04	1
NOV	89.29	1.195	0.357	3.351	8.05E-04	1
AP001107.5	4.62	1.303	0.394	3.305	9.50E-04	1
PI16	84.79	1.814	0.551	3.294	9.86E-04	1
KLHL14	15.01	1.414	0.429	3.294	9.88E-04	1
ENSG00000287455	5.81	-1.992	0.605	-3.291	9.97E-04	1
PPP1R12B	1800.24	0.592	0.180	3.288	1.01E-03	1
AL158156.1	1.52	-2.893	0.882	-3.279	1.04E-03	1
ARMCX1	198.05	0.368	0.113	3.265	1.09E-03	1
MYOC	39.08	1.637	0.505	3.244	1.18E-03	1
FHL1	3006.35	0.621	0.191	3.244	1.18E-03	1
AL591368.1	1.57	2.126	0.656	3.243	1.18E-03	1
OGN	416.10	1.052	0.326	3.224	1.26E-03	1
SLC1A3	341.37	-1.043	0.324	-3.218	1.29E-03	1
ENSG00000285569	12.43	-0.982	0.307	-3.196	1.39E-03	1
AC236972.3	20.05	-1.544	0.483	-3.194	1.40E-03	1
TRBV8-2	0.80	2.890	0.909	3.180	1.47E-03	1
NXPB3	74.63	0.920	0.291	3.165	1.55E-03	1
AC103858.1	29.93	0.557	0.177	3.151	1.63E-03	1
BRIP1	43.83	-1.024	0.325	-3.147	1.65E-03	1
LINC02084	7.18	1.070	0.340	3.145	1.66E-03	1
IGLJ7	4.75	2.465	0.784	3.142	1.68E-03	1
SLC44A5	24.93	-1.711	0.548	-3.124	1.78E-03	1
B4GAT1	179.49	0.489	0.157	3.124	1.79E-03	1
TBC1D9	559.64	0.330	0.106	3.122	1.80E-03	1
AL049767.1	3.69	-2.660	0.852	-3.121	1.80E-03	1
LINC00310	12.68	0.983	0.315	3.121	1.80E-03	1
AL513318.2	5.37	1.258	0.404	3.116	1.83E-03	1
AL807757.2	9.63	-1.076	0.345	-3.114	1.84E-03	1
CR382285.1	7.31	-1.855	0.597	-3.110	1.87E-03	1
LTC4S	44.54	1.069	0.346	3.094	1.98E-03	1
AC119751.5	3.41	-1.840	0.596	-3.089	2.01E-03	1
AC003682.1	2.34	1.307	0.424	3.081	2.06E-03	1
LNP1	49.27	0.504	0.164	3.070	2.14E-03	1
OPTN	873.91	0.379	0.123	3.069	2.15E-03	1
RGS3	499.54	0.623	0.203	3.066	2.17E-03	1
CYP1A1	51.57	-3.670	1.205	-3.047	2.32E-03	1
CDK5R1	23.83	-0.770	0.253	-3.045	2.33E-03	1
USHBP1	101.03	0.867	0.286	3.035	2.40E-03	1
PEX11G	30.15	0.604	0.199	3.029	2.46E-03	1
MAPK3	361.12	0.394	0.130	3.026	2.48E-03	1
NCALD	431.27	0.518	0.172	3.019	2.54E-03	1
LINC02207	22.35	-1.373	0.455	-3.015	2.57E-03	1
GUCY2D	12.89	-0.976	0.324	-3.013	2.58E-03	1
MIR4802	3.83	-2.398	0.798	-3.004	2.66E-03	1

	baseMean	log2FoldChange	lfcSE	stat	pvalue	padj
ZCCHC12	9.36	-2.164	0.721	-3.002	2.68E-03	1
AP000426.1	36.69	0.613	0.205	2.989	2.79E-03	1
CCDC144CP	20.41	-0.847	0.283	-2.989	2.80E-03	1
CNR1	141.86	-0.943	0.316	-2.984	2.85E-03	1
ENSG00000286042	4.68	-2.467	0.828	-2.980	2.88E-03	1
PKIG	698.02	0.455	0.153	2.975	2.93E-03	1
AC002546.1	2.48	-3.040	1.023	-2.972	2.96E-03	1
CYS1	62.34	1.155	0.389	2.968	3.00E-03	1
ACSL1	1787.32	-0.826	0.278	-2.965	3.02E-03	1
ENSG00000285851	41.25	-0.478	0.162	-2.959	3.09E-03	1
AL365199.1	1.65	1.732	0.586	2.956	3.11E-03	1
RF00554	3.14	-1.649	0.559	-2.950	3.18E-03	1
PRSS35	16.34	0.915	0.310	2.948	3.20E-03	1
KLHL10	4.86	-1.339	0.454	-2.947	3.21E-03	1
CSMD2	34.86	-1.147	0.390	-2.941	3.27E-03	1
PHGDH	158.95	0.826	0.281	2.941	3.27E-03	1
TNFSF10	1389.23	0.738	0.251	2.941	3.28E-03	1
PALB2	127.60	-0.432	0.147	-2.940	3.28E-03	1
TMIGD3	31.22	-1.247	0.425	-2.933	3.35E-03	1
ZBTB43	393.00	-0.301	0.103	-2.925	3.45E-03	1
FKBP5	1860.47	-1.438	0.492	-2.922	3.48E-03	1
AC084871.1	16.45	-1.859	0.636	-2.921	3.49E-03	1
AL513327.1	43.97	-0.787	0.270	-2.920	3.50E-03	1
CYP26B1	51.14	1.224	0.420	2.915	3.56E-03	1
TUBA8	5.41	-1.205	0.415	-2.908	3.64E-03	1
AC112250.2	4.32	-1.461	0.503	-2.907	3.65E-03	1
CD247	91.82	0.847	0.292	2.906	3.66E-03	1
NRN1	134.81	0.606	0.209	2.904	3.68E-03	1
NDST4	4.31	-1.897	0.654	-2.902	3.71E-03	1
AC008972.2	5.12	-1.400	0.483	-2.896	3.78E-03	1
SLC7A11-AS1	8.19	-1.430	0.494	-2.894	3.81E-03	1
PRF1	190.77	1.010	0.349	2.893	3.81E-03	1
WDR7	371.71	-0.292	0.101	-2.892	3.83E-03	1
RF00012	19.76	-2.638	0.913	-2.890	3.86E-03	1
AL596223.2	4.18	-1.140	0.395	-2.884	3.92E-03	1
STXBPS-AS1	37.45	-0.590	0.205	-2.883	3.93E-03	1
AASS	853.36	-0.527	0.183	-2.881	3.96E-03	1
SNORD6	5.90	-1.369	0.476	-2.875	4.04E-03	1
ACTBL2	7.66	-1.442	0.503	-2.870	4.10E-03	1
HSPD1P11	20.98	-0.858	0.299	-2.869	4.12E-03	1
LINC02217	5.15	-1.960	0.683	-2.869	4.12E-03	1
ZBTB16	680.49	-1.535	0.535	-2.867	4.14E-03	1
CCDC150	32.31	-0.741	0.259	-2.864	4.18E-03	1
HSD17B8	74.26	0.453	0.158	2.861	4.23E-03	1
LINC02361	7.56	0.883	0.309	2.858	4.26E-03	1
DAAM1	771.46	0.359	0.126	2.855	4.31E-03	1
FAM180B	3.07	1.515	0.531	2.854	4.32E-03	1
NMUR1	46.35	1.024	0.359	2.853	4.32E-03	1
ROS1	1426.93	-0.733	0.257	-2.851	4.35E-03	1
AC084871.2	19.22	-1.448	0.508	-2.851	4.36E-03	1
UBE2V1P1	5.42	-1.236	0.434	-2.848	4.40E-03	1
AOX3P	6.76	-1.595	0.560	-2.847	4.41E-03	1
TMEM128	223.74	0.251	0.088	2.841	4.50E-03	1
AZGP1	160.60	-1.331	0.468	-2.840	4.51E-03	1
TRIM39	126.43	0.298	0.105	2.837	4.56E-03	1
PIN1	235.93	0.376	0.133	2.832	4.62E-03	1
ID4	627.71	0.591	0.209	2.824	4.74E-03	1
ENSG00000286965	15.60	-0.932	0.330	-2.822	4.78E-03	1
AL450472.2	0.73	3.731	1.323	2.821	4.79E-03	1

	baseMean	log2FoldChange	lfcSE	stat	pvalue	padj
MTBP	89.45	-0.490	0.174	-2.821	4.79E-03	1
RAMP2	432.55	0.813	0.288	2.817	4.85E-03	1
CD27-AS1	230.05	0.429	0.152	2.816	4.86E-03	1
ADAMDEC1	33.81	-1.456	0.517	-2.815	4.88E-03	1
TAPBPL	291.14	0.423	0.150	2.811	4.94E-03	1
MIR663AHG	13.40	-0.911	0.324	-2.809	4.96E-03	1
CCDC144NL	3.59	-2.298	0.819	-2.807	5.00E-03	1
MYO7A	82.52	-0.601	0.214	-2.807	5.01E-03	1
GCGR	1.78	-2.577	0.918	-2.806	5.02E-03	1
TBCB	261.78	0.312	0.111	2.806	5.02E-03	1
GIMAP6	573.56	0.558	0.199	2.804	5.05E-03	1
HS6ST3	8.72	-1.253	0.447	-2.802	5.08E-03	1
WNK3	39.42	-0.737	0.263	-2.800	5.10E-03	1
ABCC8	45.69	-1.336	0.477	-2.800	5.11E-03	1
AL109809.1	3.55	-2.219	0.794	-2.797	5.17E-03	1
MTATP8P2	1.35	-2.535	0.907	-2.795	5.19E-03	1
AL359265.3	6.67	-1.004	0.359	-2.794	5.21E-03	1
C12orf43	157.10	0.215	0.077	2.792	5.23E-03	1
AC011726.2	3.65	-1.856	0.665	-2.791	5.25E-03	1
LINC02196	4.28	-1.755	0.629	-2.789	5.29E-03	1
RAMP2-AS1	130.19	0.730	0.262	2.783	5.38E-03	1
AC135457.1	432.88	0.244	0.088	2.782	5.40E-03	1
AL049873.2	1.85	1.391	0.500	2.780	5.44E-03	1
SHBG	4.27	-1.348	0.485	-2.777	5.49E-03	1
AL353743.3	3.78	-1.567	0.565	-2.773	5.55E-03	1
AL078599.2	4.66	-2.037	0.735	-2.771	5.59E-03	1
AC106795.2	9.63	-1.312	0.474	-2.770	5.60E-03	1
TCP10L2	2.30	-2.211	0.798	-2.769	5.62E-03	1
APOBEC3G	200.85	0.540	0.195	2.768	5.65E-03	1
MEN1	143.14	-0.455	0.165	-2.766	5.67E-03	1
LINC00924	22.95	0.772	0.279	2.765	5.70E-03	1
CST6	83.38	0.885	0.320	2.763	5.72E-03	1
PARP4P2	3.53	-1.673	0.605	-2.763	5.73E-03	1
HSPB9	3.50	-1.508	0.547	-2.759	5.80E-03	1
AC245595.1	10.57	0.864	0.313	2.757	5.83E-03	1
MIR2355	3.21	1.721	0.624	2.757	5.84E-03	1
AL358075.1	7.23	-0.924	0.336	-2.755	5.88E-03	1
FANCD2OS	9.68	-0.841	0.305	-2.755	5.88E-03	1
AC008063.1	20.79	-0.901	0.327	-2.754	5.88E-03	1
ADAMTS7P3	259.44	1.436	0.521	2.754	5.89E-03	1
TERB1	8.04	-1.303	0.473	-2.752	5.92E-03	1
CEP170P1	12.97	-1.097	0.399	-2.752	5.92E-03	1
KIF5C	32.97	-0.802	0.292	-2.750	5.96E-03	1
PIP4P2	114.86	0.361	0.131	2.749	5.98E-03	1
CLEC4E	98.98	-1.157	0.421	-2.748	6.00E-03	1
MRPL42P6	4.23	-1.960	0.714	-2.745	6.05E-03	1
SRSF9P1	1.78	-1.829	0.666	-2.744	6.07E-03	1
LINC02280	2.67	-2.144	0.782	-2.743	6.09E-03	1
SCIN	189.98	-0.722	0.264	-2.739	6.16E-03	1
UBAP2	365.49	-0.228	0.083	-2.737	6.19E-03	1
MAGOH3P	2.52	-1.476	0.539	-2.736	6.22E-03	1
CAVIN3	174.44	0.591	0.216	2.736	6.23E-03	1
CPTP	93.68	0.601	0.220	2.732	6.29E-03	1
ANKRD55	10.15	-0.846	0.310	-2.731	6.32E-03	1
LINC02080	4.70	-2.149	0.788	-2.729	6.35E-03	1
LINC02555	33.35	-1.106	0.406	-2.726	6.41E-03	1
AC068790.6	4.20	1.197	0.439	2.725	6.42E-03	1
AC087752.3	12.86	1.043	0.383	2.725	6.43E-03	1
ATP6V0A2	325.32	-0.255	0.094	-2.723	6.47E-03	1

	baseMean	log2FoldChange	lfcSE	stat	pvalue	padj
AC007920.2	9.00	0.914	0.336	2.721	6.51E-03	1
OR13E1P	2.02	1.342	0.494	2.716	6.60E-03	1
TP53INP1	1007.16	0.471	0.174	2.714	6.65E-03	1
IGLV1-51	287.56	1.668	0.615	2.713	6.66E-03	1
IRF4	187.87	0.890	0.328	2.713	6.67E-03	1
LINC02475	2.25	-2.366	0.873	-2.709	6.74E-03	1
CCSER1	62.14	-0.597	0.220	-2.709	6.76E-03	1
PSEN2	165.92	0.295	0.109	2.708	6.77E-03	1
ACRV1	2.12	-2.034	0.752	-2.707	6.80E-03	1
HLA-E	12675.49	0.565	0.209	2.706	6.81E-03	1
MYH10	2925.34	0.682	0.253	2.701	6.90E-03	1
ENSG00000286677	2.33	-1.692	0.627	-2.700	6.93E-03	1
CHIA	49.62	-1.447	0.536	-2.699	6.95E-03	1
ARRDC2	553.40	-0.652	0.242	-2.699	6.95E-03	1
LINC02213	2.50	-1.872	0.695	-2.693	7.07E-03	1
XDH	23.11	-0.870	0.323	-2.693	7.08E-03	1
AC016405.2	0.64	1.875	0.696	2.693	7.09E-03	1
FHIT	88.32	-0.373	0.139	-2.692	7.09E-03	1
SDC2	661.84	0.380	0.141	2.689	7.17E-03	1
AL356387.1	7.13	-2.153	0.801	-2.688	7.19E-03	1
HTATSF1	457.64	0.232	0.086	2.686	7.23E-03	1
AC007342.5	10.92	-0.813	0.303	-2.686	7.24E-03	1
AL355306.2	9.19	-1.625	0.605	-2.684	7.28E-03	1
AC011753.4	1.65	-1.970	0.734	-2.683	7.31E-03	1
PLSCR3	3.88	1.321	0.493	2.682	7.33E-03	1
PRPSAP1	374.84	0.323	0.121	2.680	7.37E-03	1
LHFPL6	767.99	0.449	0.168	2.679	7.38E-03	1
PNLIPRP3	3.40	-2.648	0.989	-2.678	7.40E-03	1
PRR15L	306.03	-0.742	0.277	-2.678	7.40E-03	1
CEP70	389.99	-0.511	0.191	-2.676	7.44E-03	1
AP001341.1	0.97	-2.740	1.024	-2.676	7.44E-03	1
EML1	305.28	0.453	0.169	2.676	7.45E-03	1
AC114812.4	3.14	-2.578	0.964	-2.675	7.47E-03	1
VWDE	31.71	-0.772	0.288	-2.675	7.47E-03	1
DUOXA1	453.17	-0.774	0.289	-2.674	7.49E-03	1
AC027514.1	9.95	-1.514	0.567	-2.671	7.55E-03	1
AC023449.2	17.21	-0.755	0.283	-2.671	7.56E-03	1
AC141586.5	12.92	-0.957	0.358	-2.670	7.59E-03	1
LINC01725	26.43	-0.782	0.293	-2.670	7.59E-03	1
C1orf198	1115.21	0.574	0.215	2.669	7.60E-03	1
C16orf54	117.28	0.571	0.214	2.666	7.69E-03	1
PLCL2	159.26	0.391	0.147	2.663	7.75E-03	1
POLN	26.46	-0.669	0.251	-2.663	7.76E-03	1
AC109830.1	7.45	-1.367	0.514	-2.659	7.85E-03	1
ENSG00000286303	4.04	-2.001	0.753	-2.657	7.88E-03	1
TAF9B	265.85	0.294	0.111	2.657	7.89E-03	1
SH3PXD2B	630.33	-0.824	0.311	-2.654	7.96E-03	1
CNNM1	11.73	-0.847	0.319	-2.651	8.02E-03	1
SCAMP5	75.28	0.708	0.267	2.649	8.08E-03	1
ZNF215	64.82	0.775	0.293	2.646	8.15E-03	1
SLC25A51	89.69	-0.384	0.145	-2.644	8.19E-03	1
AL592437.2	4.69	-1.469	0.556	-2.644	8.19E-03	1
RDH5	17.46	0.504	0.191	2.643	8.22E-03	1
TMEM47	539.70	0.468	0.177	2.641	8.26E-03	1
ACSL6	21.48	-0.765	0.290	-2.641	8.26E-03	1
PKHD1	29.69	-0.967	0.366	-2.641	8.27E-03	1
AC083899.1	11.44	-0.753	0.285	-2.639	8.32E-03	1
SEL1L	1685.02	0.366	0.139	2.638	8.35E-03	1
AC011095.1	3.06	-2.168	0.822	-2.638	8.35E-03	1

	baseMean	log2FoldChange	lfcSE	stat	pvalue	padj
MALSU1	121.48	0.311	0.118	2.638	8.35E-03	1
ZNF442	52.00	0.406	0.154	2.637	8.36E-03	1
GPR82	21.06	-0.637	0.242	-2.636	8.39E-03	1
LBP	15.26	-2.333	0.885	-2.636	8.40E-03	1
GZMM	17.13	1.044	0.396	2.634	8.44E-03	1
KRT8P47	7.80	0.732	0.278	2.632	8.49E-03	1
AC097460.3	3.91	-1.275	0.485	-2.630	8.55E-03	1
UFSP2	333.83	0.299	0.114	2.627	8.61E-03	1
CCDC62	10.23	-0.782	0.298	-2.626	8.63E-03	1
FNDC10	26.25	-0.718	0.274	-2.623	8.72E-03	1
MIR320D1	1.74	-2.185	0.833	-2.622	8.73E-03	1
AC092652.2	8.70	0.973	0.371	2.622	8.74E-03	1
AF127577.4	27.50	-0.548	0.209	-2.618	8.83E-03	1
MFAP5	97.92	1.481	0.566	2.618	8.84E-03	1
RASAL1	10.36	-1.105	0.422	-2.617	8.87E-03	1
DUSP26	10.97	0.891	0.341	2.616	8.89E-03	1
AC015917.2	4.97	0.899	0.344	2.616	8.90E-03	1
NBEAP1	8.66	-1.357	0.519	-2.614	8.96E-03	1
ZPLD1	8.00	-1.639	0.627	-2.612	9.00E-03	1
AL121832.2	8.33	0.736	0.282	2.611	9.02E-03	1
AC241377.3	5.53	0.734	0.281	2.610	9.06E-03	1
AL136366.1	10.80	0.755	0.289	2.608	9.11E-03	1
FMO5	495.66	-0.759	0.292	-2.602	9.26E-03	1
AC022540.1	17.23	-0.571	0.220	-2.602	9.26E-03	1
SERPINF2	114.69	-0.951	0.366	-2.600	9.31E-03	1
RAC3	12.66	-1.048	0.403	-2.600	9.32E-03	1
ENSG00000288013	3.13	1.543	0.593	2.599	9.34E-03	1
ENSG00000287695	15.22	-0.688	0.265	-2.599	9.34E-03	1
AL023583.1	2.86	-2.084	0.802	-2.598	9.37E-03	1
AC008802.1	1.86	-1.987	0.765	-2.598	9.39E-03	1
DOCK3	42.49	-0.643	0.248	-2.595	9.46E-03	1
C18orf32	82.56	0.316	0.122	2.593	9.53E-03	1
COL19A1	21.73	-1.017	0.392	-2.592	9.54E-03	1
AP005482.3	9.33	-0.817	0.315	-2.592	9.54E-03	1
AL772337.1	3.42	-2.807	1.084	-2.590	9.59E-03	1
AC021086.1	6.87	-0.927	0.358	-2.589	9.63E-03	1
TXNDC15	587.13	0.227	0.088	2.585	9.73E-03	1
AC068633.1	2.09	2.028	0.785	2.584	9.78E-03	1
SLC2A12	81.32	0.570	0.221	2.583	9.78E-03	1
C2-AS1	17.04	-0.683	0.265	-2.582	9.81E-03	1
GIMAP2	187.57	0.472	0.183	2.581	9.86E-03	1
AAMDC	175.54	0.313	0.121	2.581	9.86E-03	1
RPL31P61	1.87	-1.721	0.667	-2.581	9.86E-03	1
AC009271.1	8.35	-1.333	0.517	-2.580	9.87E-03	1
NPM1P27	27.04	-0.453	0.176	-2.580	9.88E-03	1
PTGDR	30.48	0.871	0.338	2.579	9.91E-03	1

Supplementary file3.

The table includes top DE genes in the comparison of IPF samples with and without IL7 gene fusion.

baseMean: mean of all samples;

log2 fold change (MLE): IPF with gene fusion vs without gene fusion;

lfcSE: standard error of log2 fold change;

stat: Wald statistic;

pvalue: p-value of two-tailed test based on normal distribution;

padj: adjusted p-value