

**Supplementary Table S1.**

Differentially expressed genes in Fip1-depleted cells and overlap with Fip1 APA targets.

<b>Gene ID</b>	<b>Gene Symbol</b>	<b>Average fold change</b>	<b>Overlap</b>
21991	Tpi1	-1.047706248	YES
378702	Serf2	1.001627952	YES
223601	Fam49b	1.106894477	YES
50926	Hnrpdl	1.162428138	YES
12572	Cdk7	1.247934314	YES
16976	Lrpap1	1.260555725	YES
27050	Rps3	1.463983042	YES
14792	Lpcat3	-2.236758803	NO
83560	Tex14	-2.162915195	NO
69634	Clybl	-2.015832236	NO
20257	Stmn2	-1.964744063	NO
225288	Fhod3	-1.864259954	NO
73677	Psma8	-1.815616342	NO
68953	Chmp2a	-1.727514622	NO
54004	Diap2	-1.707154809	NO
68738	Acss1	-1.6814583	NO
66899	Fip1l1	-1.620427017	NO
66514	Asrgl1	-1.607938463	NO
70186	Fam162a	-1.564679518	NO
71778	Klhl5	-1.539333801	NO
71599	Senp8	-1.498608495	NO
94352	Loxl2	-1.495761756	NO
18173	Slc11a1	-1.472187033	NO
76857	Spopl	-1.46440022	NO
85031	Pla1a	-1.460005109	NO
68055	Atp5s	-1.448475582	NO
320795	Pkn1	-1.443191659	NO
234309	Cbr4	-1.427807386	NO
13198	Ddit3	-1.392386891	NO
68047	Mpnd	-1.391037086	NO
268566	Gphn	-1.37710362	NO
227620	Uap1l1	-1.358744696	NO
17533	Mrc1	-1.355349615	NO
14874	Gstz1	-1.354926507	NO
328971	Spink10	-1.336115602	NO
14686	Gnat2	-1.32888643	NO
72157	Pgm2	-1.326980964	NO
245847	Amdhd2	-1.320442388	NO

71981	Tdrd12	-1.312842064	NO
76781	Mettl4	-1.312734366	NO
20168	Rtn3	-1.310124455	NO
29811	Ndrp2	-1.302452718	NO
76784	Mtif2	-1.297827271	NO
51798	Ech1	-1.296648411	NO
66757	Adat2	-1.293240556	NO
16774	Lama3	-1.277928042	NO
14453	Gas2	-1.275332422	NO
26422	Nbea	-1.273908424	NO
20431	Si	-1.27240063	NO
71648	Optn	-1.268364011	NO
20913	Stxbp4	-1.267857465	NO
77619	Preld2	-1.25344882	NO
75578	Fggy	-1.248984666	NO
20713	Serpini1	-1.24815539	NO
57896	Krcc1	-1.24241074	NO
68236	Gtsf1l	-1.239843841	NO
80879	Slc16a3	-1.234038389	NO
67578	Patl2	-1.213977501	NO
56615	Mgst1	-1.199923735	NO
21763	Tex2	-1.19897212	NO
15937	Ier3	-1.198463619	NO
78751	Zc3h6	-1.197998638	NO
20341	Selenbp1	-1.196697218	NO
14635	Galk1	-1.195729836	NO
23965	Odz3	-1.186640328	NO
50527	Ero1l	-1.184016291	NO
66487	2010107H07Rik	-1.182279868	NO
73139	Cenpv	-1.177687816	NO
66559	Metap1	-1.176580491	NO
106344	Rfc4	-1.175835673	NO
14734	Gpc3	-1.174452123	NO
236899	Pcyt1b	-1.172812507	NO
83558	Tex11	-1.162299932	NO
14348	Fut9	-1.160293993	NO
71365	Pdss2	-1.159766241	NO
74393	4933403G14Rik	-1.158286912	NO
67419	3632451O06Rik	-1.157827273	NO
56279	Fam69b	-1.14628565	NO
272538	Tmco7	-1.141653793	NO
225283	Rprd1a	-1.134747431	NO
72562	Pcbd2	-1.124059436	NO
229905	Ccbl2	-1.117616805	NO

69008	Cab39l	-1.117244206	NO
22145	Tuba4a	-1.116598749	NO
320158	Zmat4	-1.112889521	NO
100177	Zmym6	-1.11206529	NO
16795	Large	-1.111155506	NO
20893	Bhlhe40	-1.107135258	NO
226539	Dars2	-1.102652462	NO
208718	Dis3l2	-1.102398377	NO
17133	Maff	-1.102031089	NO
69726	Smyd3	-1.099520271	NO
66790	Grtp1	-1.098252645	NO
26897	Acot1	-1.096939218	NO
230654	Lrrc41	-1.095349702	NO
74388	Dpp8	-1.091162682	NO
67101	2310039H08Rik	-1.087916265	NO
76917	Flywch2	-1.085384596	NO
11676	Aldoc	-1.083851426	NO
14872	Gstt2	-1.0734466	NO
67091	Trappc6a	-1.073362367	NO
56277	Tmem45a	-1.070962252	NO
72322	Xpo5	-1.067075965	NO
244049	Mctp2	-1.066110248	NO
75516	Ttc32	-1.061935943	NO
102093	Phkb	-1.061287729	NO
110821	Pcca	-1.060066473	NO
68514	Efha1	-1.059816068	NO
57258	Xpo4	-1.058975836	NO
107227	MacroD1	-1.051642399	NO
67664	Rnf125	-1.050911366	NO
66277	Klf15	-1.048788269	NO
66333	Aqp11	-1.043618045	NO
241035	Pkhd1	-1.040338665	NO
77634	Snopc3	-1.038597004	NO
241070	Gpr1	-1.033028999	NO
27369	Dguok	-1.031643339	NO
19337	Rab33a	-1.030546172	NO
13528	Dtnb	-1.029747315	NO
67905	Ppm1m	-1.028568257	NO
14696	Gnb4	-1.025162828	NO
67899	Cmc1	-1.022504822	NO
66706	Ndufaf3	-1.020901625	NO
108853	Mtrf1l	-1.019362079	NO
75452	Ascc2	-1.016354633	NO
68015	Trap1	-1.012782945	NO

68631	Cryl1	-1.011420367	NO
56421	Pfkp	-1.010573126	NO
66469	2810405K02Rik	-1.00980792	NO
219094	Khbyn	-1.009022953	NO
68774	Ms4a6d	-1.004503101	NO
66720	Klhl10	-1.003427482	NO
13813	Eomes	1.004511133	NO
71602	Myo1e	1.013413774	NO
11504	Adamts1	1.018994597	NO
29877	Hdgfrp3	1.023009072	NO
231510	Agpat9	1.026363357	NO
237500	Tmtc3	1.050126254	NO
212933	Pm20d1	1.050324422	NO
73284	Ddit4l	1.063294267	NO
11752	Anxa8	1.065636952	NO
18669	Abcb1b	1.06979721	NO
231440	Parm1	1.070126458	NO
319527	B230325K18Rik	1.070326158	NO
68797	Pdgfrl	1.080441292	NO
75723	Amotl1	1.088004943	NO
235180	Fez1	1.095311364	NO
238076	Kcns3	1.111165284	NO
13136	Cd55	1.1179104	NO
13482	Dpp4	1.118427704	NO
16904	Gzmm	1.121697168	NO
56491	Vapb	1.131528696	NO
13805	Eng	1.139530862	NO
239083	Ccnb1ip1	1.14055763	NO
57279	Slc25a20	1.142723268	NO
74437	4933402E13Rik	1.145306053	NO
110648	Lmx1a	1.149677278	NO
11828	Aqp3	1.151797729	NO
19934	Rpl22	1.152602362	NO
217012	Unc45b	1.153701806	NO
12832	Col5a2	1.155755386	NO
20616	Snap91	1.164720827	NO
27226	Pla2g7	1.174006556	NO
17130	Smad6	1.175701292	NO
67168	Lpar6	1.187596054	NO
68016	Murc	1.191210393	NO
232023	Vopp1	1.202792191	NO
20227	Sart1	1.207009887	NO
15904	Id4	1.207907368	NO
109624	Cald1	1.224941225	NO

56213	Htra1	1.23054666	NO
17035	Lxn	1.235163971	NO
72723	Zfp74	1.261801124	NO
217333	Trim47	1.264324371	NO
12514	Cd68	1.268137056	NO
22418	Wnt5a	1.288241656	NO
16476	Jun	1.304840003	NO
16952	Anxa1	1.341812713	NO
434377	Zfp560	1.348812164	NO
56741	Igdcc4	1.360912235	NO
16526	Kcnk2	1.361456272	NO
69327	1700007K13Rik	1.366241814	NO
208982	Hmgcll1	1.371778634	NO
14181	Fgfbp1	1.398678077	NO
20166	Rtkn	1.42775991	NO
12444	Ccnd2	1.432672648	NO
245423	Gm364	1.43837449	NO
12683	Cidea	1.439079845	NO
20971	Sdc4	1.441741106	NO
16007	Cyr61	1.456275304	NO
11910	Atf3	1.492830996	NO
14531	Gcm1	1.495875564	NO
14121	Fbp1	1.500464521	NO
227960	Gca	1.50183377	NO
235493	BC031353	1.50595693	NO
216021	Stox1	1.547009425	NO
93765	Ube2n	1.574630772	NO
622434	4631416L12Rik	1.579947711	NO
11555	Adrb2	1.587458671	NO
385493	AU015836	1.759708468	NO
69549	2310009B15Rik	1.770948171	NO
64058	Perp	1.826880312	NO
236537	Zfp352	1.83657809	NO
21664	Phlda1	1.842228119	NO
244608	Ccdc113	1.923083905	NO
11991	Hnrnpd	1.947631394	NO
14120	Fbp2	1.999566815	NO
12955	Cryab	2.177754849	NO
20024	Sub1	1.035986707	NO
64934	Pes1	1.060858219	NO
16785	Rpsa	1.269514027	NO
67115	Rpl14	1.558975889	NO
19933	Rpl21	1.786194924	NO
56455	Dynll1	2.464652085	NO

73490	Mipol1	-1.865952775	NO
74319	1110005A03Rik	-1.716488695	NO
237246	BC022960	-1.590153165	NO
13417	Dnahc8	-1.516213546	NO
67522	1700097N02Rik	-1.444587894	NO
66359	Fam36a	-1.407840041	NO
14466	Gba	-1.323613449	NO
18784	Pla2g5	-1.309720417	NO
106740	LOC106740	-1.301307164	NO
242484	D630039A03Rik	-1.255454128	NO
100503788	n/a	-1.187756797	NO
226026	Smc5	-1.159684049	NO
75801	4930447C04Rik	-1.132156422	NO
672498	Gm9564	-1.121554741	NO
66275	n/a	-1.100368288	NO
73708	Dppa3	-1.087681873	NO
192976	BC046404	-1.082026544	NO
57742	Abhd1	-1.023062296	NO
654824	Ankrd37	-1.020133103	NO
77358	9430069I07Rik	-1.002300415	NO
14105	Srsf10	1.018722085	NO
100043601	n/a	1.020688957	NO
668059	Gm8953	1.043153299	NO
239552	Apol8	1.044741215	NO
13665	Eif2s1	1.061603707	NO
57444	Isg20	1.063320343	NO
12258	Serping1	1.075149562	NO
277010	Marveld1	1.091815538	NO
15077	Hist2h3c1	1.097442193	NO
16372	Irx2	1.145176136	NO
76815	Calcoco2	1.162592167	NO
18530	Pcdh8	1.203758383	NO
70757	Ptplb	1.268381204	NO
217122	Gm11545	1.270630049	NO
20220	Sap18	1.283441098	NO
100503774	n/a	1.317187786	NO
66712	Spesp1	1.353806642	NO
20104	Rps6	1.38137617	NO
546118	Ubtfl1	1.4094914	NO
100502591	n/a	1.420805361	NO
666806	Gm8300	1.424104698	NO
245350	AA414768	1.428348192	NO
12151	Bmi1	1.530122543	NO
381845	2310014L17Rik	1.610049065	NO

100504500	n/a	1.631516131	NO
15586	Hyal1	1.632037998	NO
50708	Hist1h1c	1.671173585	NO
267019	Rps15a	2.030057482	NO
12116	Bhmt	2.087108118	NO
100503670	n/a	2.159033137	NO
432591	Gm11544	2.231961578	NO
15375	Foxa1	2.300220172	NO
97165	Hmgb2	2.656231638	NO
11951	Atp5g1	2.841588999	NO