

Supplemental Table 2: Genes activated after P-2, with Pol-II peak signal ratios ≥ 1.8 , that recruit FIZ1

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No.	Gene List	FIZ1 Peak Value	Pol-II Peak Value P-2	Pol-II Peak Value P-25	Pol-II Ratio P-25/P-2	UCSC GB Link (mm7)	
1	Slc24a1	7.6	0.9	12.1	14.0	ActReg chr9 #6147	
2	Rplp2	5.1	0.8	11.1	13.8	ActReg chr12 #1350	
3	Ablim1	3.2	1.3	14.4	11.1	ActReg chr19 #3127	
4	Ablim1	3.2	1.3	14.4	11.1	ActReg chr19 #3127	
5	Rcvrn	5.2	1.1	12.1	10.9	ActReg chr11 #888	
6	3830408G10Rik	6.1	1.0	11.3	10.8	ActReg chr5 #4534	
7	Osbp2	2.8	1.3	13.6	10.2	ActReg chr11 #702	
8	Rho	5.4	1.6	16.2	10.0	ActReg chr6 #5031	
9	Gngt1	4.2	1.2	11.4	9.4	ActReg chr6 #4822	
10	2610034M16Rik	6.8	0.7	6.6	9.3	ActReg chr17 #2659	
11	A930008G19Rik	6.1	2.4	20.3	8.5	ActReg chr7 #5578	
12	Gnb5	6.2	1.4	11.5	8.4	ActReg chr9 #6185	
13	Rs1h	4.1	1.0	7.6	8.0	ActReg chrX #6526	
14	Impg1	4.5	1.2	9.3	7.9	ActReg chr9 #6196	
15	Gpsm2	2.8	0.8	6.5	7.9	ActReg chr3 #3919	
16	3110049J23Rik	3.0	0.6	5.0	7.8	ActReg chr10 #496	
17	BC025816	2.9	0.9	6.6	7.7	ActReg chr8 #5921	
18	LOC625684	3.5	1.7	11.4	6.8	ActReg chr5 #4587	
19	Slc17a7	2.9	1.7	11.3	6.7	ActReg chr7 #5321	
20	Mef2c	3.9	1.0	6.7	6.7	ActReg chr13 #1656	
21	Grk1	3.5	2.0	13.2	6.5	ActReg chr8 #5645	
22	Dpf3	2.7	1.1	6.8	6.5	ActReg chr12 #1375	
23	Usp6nl	5.0	1.3	7.8	5.8	ActReg chr2 #3158	
24	Rgs9bp	3.5	2.6	14.6	5.7	ActReg chr7 #5283	

25	Rdh12	3.4	1.3	7.6	5.7	ActReg chr12 #1364	
26	Mllt6	5.3	3.2	18.2	5.6	ActReg chr11 #1072	
27	Jmjd2c	11.5	1.8	10.0	5.6	ActReg chr4 #4114	
28	Snf1lk2	5.1	2.0	11.1	5.5	ActReg chr9 #6088	
29	Tmem24	4.1	2.1	11.3	5.4	ActReg chr9 #6057	
30	6330442E10Rik	3.1	1.0	5.2	5.4	ActReg chr12 #1360	
31	Cd276	3.0	1.3	6.8	5.4	ActReg chr9 #6122	
32	Map1lc3-ps6	3.2	2.0	10.7	5.4	ActReg chr8 #5846	
33	Sag	3.0	2.6	13.5	5.2	ActReg chr1 #150	
34	Dscaml1	16.4	1.2	6.3	5.1	ActReg chr9 #6071	
35	4921511C16	2.9	2.2	10.9	5.0	ActReg chr5 #4668	
36	Tnfsf12	3.3	1.3	6.2	5.0	ActReg chr11 #909	
37	Pde6b	2.7	2.7	13.5	5.0	ActReg chr5 #4607	
38	Syne1	3.0	1.4	6.8	4.9	ActReg chr10 #377	
39	2310030G06Rik	2.9	1.1	5.3	4.9	ActReg chr9 #6086	
40	Cdk5r2	7.7	2.7	13.1	4.9	ActReg chr1 #126	
41	Aggf1	2.7	1.0	5.0	4.8	ActReg chr13 #1677	
42	4932414K18Rik	3.4	1.4	6.6	4.8	ActReg chr5 #4511	
43	1700001K19Rik	3.6	1.6	7.7	4.7	ActReg chr12 #1435	
44	Rabgef1	4.2	1.1	5.1	4.6	ActReg chr5 #4710	
45	1500005N04Rik	3.6	1.4	6.2	4.6	ActReg chr9 #6287	
46	Tnfaip3	3.8	2.0	9.0	4.5	ActReg chr10 #397	
47	Dp1l1	3.0	2.5	11.1	4.5	ActReg chr10 #555	
48	Vtn	4.2	4.0	17.9	4.4	ActReg chr11 #980	
49	Stom	6.7	2.1	9.0	4.4	ActReg chr2 #3276	
50	Cckbr	3.2	1.5	6.5	4.3	ActReg chr7 #5449	
51	4933409I22	6.8	2.2	9.5	4.3	ActReg chr8 #5848	
52	Prkab1	3.7	3.0	12.7	4.2	ActReg chr5 #4650	
53	Pde6a	3.9	2.3	9.5	4.2	ActReg chr18 #2836	
54	Slc4a7	3.7	1.6	6.7	4.2	ActReg chr14 #1731	
55	Slco4a1	4.6	2.9	11.9	4.2	ActReg chr2 #3660	
56	A930017N06Rik	3.0	1.5	6.4	4.2	ActReg chr5 #4767	
57	C1qtnf4	5.1	2.8	11.7	4.1	ActReg chr2 #3367	

58	Rds	4.0	3.8	15.5	4.1	ActReg chr17 #2618	
59	Gnb1	4.9	2.6	10.8	4.1	ActReg chr4 #4385	
60	A330096I21Rik	3.1	2.7	10.9	4.0	ActReg chr8 #5813	
61	Ahr	3.3	1.2	4.8	4.0	ActReg chr12 #1289	
62	Uckl1	5.9	4.1	15.9	3.9	ActReg chr2 #3674	
63	Eno2	3.6	2.9	11.2	3.8	ActReg chr6 #5061	
64	Sgk	3.1	2.0	7.5	3.8	ActReg chr10 #405	
65	Map4k3	4.3	2.8	10.5	3.8	ActReg chr17 #2695	
66	E130103I17Rik (	4.7	3.5	13.2	3.8	ActReg chr9 #6014	
67	Tmem35	3.2	1.9	7.3	3.8	ActReg chrX #6482	
68	Ercc1	4.1	2.0	7.6	3.7	ActReg chr7 #5181	
69	Wdr17	5.3	1.7	6.2	3.7	ActReg chr8 #5712	
70	4930451I11Rik	2.9	2.5	9.5	3.7	ActReg chr7 #5528	
71	Plekhb1	5.9	3.1	11.3	3.7	ActReg chr7 #5431	
72	Mpp4	4.4	2.8	10.4	3.7	ActReg chr1 #82	
73	Rtn4	5.2	1.8	6.4	3.6	ActReg chr11 #768	
74	Zdhhc2	2.9	1.4	5.0	3.5	ActReg chr8 #5690	
75	Slc38a3	4.1	4.2	14.7	3.5	ActReg chr9 #6266	
76	Gnat1	4.1	4.2	14.7	3.5	ActReg chr9 #6266	
77	Klf9	3.8	3.7	12.6	3.4	ActReg chr19 #3011	
78	Pdc	6.0	2.4	8.3	3.4	ActReg chr1 #240	
79	Mier1	4.2	3.1	10.3	3.4	ActReg chr4 #4152	
80	Ankrd12	3.5	2.2	7.4	3.3	ActReg chr17 #2666	
81	Gm184	2.7	2.5	8.4	3.3	ActReg chr9 #6052	
82	Slc16a1	3.8	3.1	10.2	3.3	ActReg chr3 #3894	
83	Txnl6	3.0	3.3	11.0	3.3	ActReg chr8 #5764	
84	E2f3	3.7	3.0	9.9	3.3	ActReg chr13 #1524	
85	4930519N16Rik	2.8	3.1	10.1	3.3	ActReg chr13 #1568	
86	Mapk6	4.0	2.8	9.0	3.3	ActReg chr9 #6186	
87	Hcn1	4.8	3.3	10.8	3.2	ActReg chr13 #1721	
88	Tex264	2.8	1.9	6.2	3.2	ActReg chr9 #6254	
89	6330407D12Rik	5.5	4.1	13.3	3.2	ActReg chr6 #4905	
90	Gm1568	2.7	2.2	7.0	3.2	ActReg chr12 #1369	

91	Lrrc21	3.3	1.5	4.7	3.1	ActReg chr14 #1787	
92	Arhgap24	3.5	2.8	8.9	3.1	ActReg chr5 #4588	
93	Mapre2	2.8	3.2	10.2	3.1	ActReg chr18 #2749	
94	Negr1	4.2	2.0	6.4	3.1	ActReg chr3 #3985	
95	Epb4.1	7.2	3.2	9.9	3.1	ActReg chr4 #4269	
96	Bbs7	4.6	3.0	9.3	3.1	ActReg chr3 #3718	
97	Sesn2	3.4	2.4	7.4	3.1	ActReg chr4 #4277	
98	Chsy1	3.4	2.8	8.5	3.1	ActReg chr7 #5361	
99	Park2	4.3	1.7	5.3	3.1	ActReg chr17 #2408	
100	Stxbp5l	3.0	1.7	5.0	3.1	ActReg chr16 #2311	
101	Mrpl45	4.7	3.1	9.6	3.1	ActReg chr11 #1070	
102	Ctbp2	3.0	3.2	9.7	3.0	ActReg chr7 #5581	
103	Hk2	6.0	2.6	7.8	3.0	ActReg chr6 #4956	
104	Tob1	3.1	4.2	12.5	3.0	ActReg chr11 #1049	
105	Gnaz	2.8	2.6	7.6	3.0	ActReg chr10 #515	
106	Rp1h	5.6	2.9	8.5	2.9	ActReg chr1 #1	
107	Gm672	3.5	1.7	4.9	2.9	ActReg chr18 #2872	
108	Coro2b	3.7	4.1	11.9	2.9	ActReg chr9 #6136	
109	Lrrc22	4.4	4.3	12.4	2.9	ActReg chr14 #1788	
110	Tnni1	4.8	1.6	4.6	2.9	ActReg chr1 #224	
111	Cope	3.1	3.5	9.9	2.9	ActReg chr8 #5740	
112	Tssk5	3.5	3.1	8.6	2.8	ActReg chr15 #2050	
113	Crlf3	5.4	4.0	11.0	2.8	ActReg chr11 #993	
114	Pbx3	4.2	4.0	11.0	2.8	ActReg chr2 #3267	
115	Dusp22	2.9	2.1	5.7	2.7	ActReg chr13 #1527	
116	LOC628766	3.6	2.5	6.7	2.7	ActReg chr19 #2896	
117	Man2a2	4.8	2.9	7.6	2.7	ActReg chr7 #5382	
118	Stk35	3.6	4.1	10.9	2.7	ActReg chr2 #3502	
119	Al118078	2.5	2.3	6.0	2.7	ActReg chr9 #6100	
120	Mtap2	5.1	1.7	4.4	2.6	ActReg chr1 #108	
121	Scp2	3.6	2.3	6.0	2.6	ActReg chr4 #4165	
122	Slc16a6	2.9	2.7	7.0	2.6	ActReg chr11 #1156	
123	Herc3	4.2	2.5	6.3	2.6	ActReg chr6 #4929	

124	Cdkl2	3.0	2.1	5.2	2.5	ActReg chr5 #4560	
125	Supt5h	6.8	3.6	9.0	2.5	ActReg chr7 #5235	
126	Plekhf2	4.4	2.6	6.5	2.5	ActReg chr4 #3997	
127	Dedd2	3.4	3.3	8.2	2.5	ActReg chr7 #5209	
128	Ipmk	4.2	2.5	6.2	2.5	ActReg chr10 #510	
129	Ttc8	3.3	3.3	8.0	2.5	ActReg chr12 #1411	
130	Snap25	3.5	3.9	9.6	2.4	ActReg chr2 #3527	
131	Mtdh	3.8	3.2	7.9	2.4	ActReg chr15 #1981	
132	Sec22l2	6.3	3.8	9.2	2.4	ActReg chr16 #2304	
133	Kctd7	3.5	3.8	9.3	2.4	ActReg chr5 #4709	
134	Kif1a	2.9	3.2	7.9	2.4	ActReg chr1 #166	
135	Bnip3	4.1	2.5	6.0	2.4	ActReg chr7 #5588	
136	Apba3	4.6	4.3	10.3	2.4	ActReg chr10 #576	
137	Stard7	3.0	3.6	8.5	2.4	ActReg chr2 #3488	
138	Slc6a6	3.2	2.5	6.0	2.4	ActReg chr6 #4996	
139	Esrrg	3.1	2.5	5.8	2.4	ActReg chr1 #354	
140	Laptm4b	4.7	2.5	5.9	2.3	ActReg chr15 #1982	
141	Rora	3.3	2.5	5.8	2.3	ActReg chr9 #6168	
142	Gas6	3.3	2.0	4.8	2.3	ActReg chr8 #5646	
143	Nfasc	3.2	2.4	5.6	2.3	ActReg chr1 #210	
144	Rpgrip1	3.3	3.9	9.1	2.3	ActReg chr14 #1819	
145	Camkk1	4.2	2.2	5.2	2.3	ActReg chr11 #942	
146	BC027092	3.9	2.7	6.3	2.3	ActReg chr9 #6074	
147	4833420G17Rik	3.3	1.8	4.2	2.3	ActReg chr13 #1724	
148	Acadvl	3.4	3.3	7.6	2.3	ActReg chr11 #918	
149	C1ql3	3.3	3.3	7.5	2.3	ActReg chr2 #3165	
150	Pkn3	2.8	2.7	6.1	2.3	ActReg chr2 #3232	
151	Plekha2	4.3	2.9	6.7	2.3	ActReg chr8 #5665	
152	1500041J02Rik	2.9	2.7	6.2	2.3	ActReg chr1 #70	
153	Pgm2	3.4	3.1	7.0	2.3	ActReg chr4 #4147	
154	D16Ertd472e	4.9	3.1	7.0	2.3	ActReg chr16 #2361	
155	Nfyc	3.0	3.9	8.9	2.3	ActReg chr4 #4223	
156	Lyar	4.7	2.8	6.2	2.2	ActReg chr5 #4503	

157	Madd	3.5	2.9	6.4	2.2	ActReg chr2 #3370	
158	Snx11	2.9	4.3	9.6	2.2	ActReg chr11 #1063	
159	C330001K17Rik	3.5	3.8	8.5	2.2	ActReg chr9 #6007	
160	G430022H21Rik	2.9	4.4	9.8	2.2	ActReg chr3 #3934	
161	Pink1	3.9	4.3	9.4	2.2	ActReg chr4 #4320	
162	Impg2	3.3	2.8	6.1	2.2	ActReg chr16 #2347	
163	ORF61	2.8	4.0	8.8	2.2	ActReg chr10 #547	
164	Ap1b1	3.3	2.3	5.0	2.2	ActReg chr11 #712	
165	St8sia1	3.7	3.4	7.3	2.2	ActReg chr6 #5106	
166	Mdm1	2.9	3.2	6.8	2.1	ActReg chr10 #648	
167	Fbxo9	4.0	4.1	8.8	2.1	ActReg chr9 #6191	
168	BC068281	3.1	2.2	4.7	2.1	ActReg chr12 #1245	
169	Gtf2f2	3.2	2.6	5.5	2.1	ActReg chr14 #1913	
170	Pgam1	4.2	3.6	7.7	2.1	ActReg chr19 #3066	
171	Sept4	2.7	2.5	5.3	2.1	ActReg chr11 #1030	
172	Slc6a15	3.5	3.1	6.6	2.1	ActReg chr10 #623	
173	Cul5	3.6	3.7	7.7	2.1	ActReg chr9 #6092	
174	Gbf1	4.5	3.2	6.8	2.1	ActReg chr19 #3096	
175	Jag1	3.1	2.2	4.6	2.1	ActReg chr2 #3530	
176	Pcyt1b	2.9	2.4	5.1	2.1	ActReg chrX #6441	
177	Pop5	4.2	2.6	5.4	2.1	ActReg chr5 #4639	
178	Calcoco1	3.8	2.3	4.9	2.1	ActReg chr15 #2185	
179	Rab14	3.6	2.9	6.1	2.1	ActReg chr2 #3275	
180	Zfp533	3.1	3.0	6.3	2.1	ActReg chr2 #3339	
181	1700008G05Rik	4.4	3.5	7.1	2.1	ActReg chr3 #3689	
182	Gga1	3.3	3.8	7.8	2.1	ActReg chr15 #2069	
183	Rpo1-3	3.1	2.2	4.5	2.0	ActReg chr5 #4808	
184	Mdh1	2.8	3.6	7.4	2.0	ActReg chr11 #750	
185	Ubap1	3.0	2.7	5.4	2.0	ActReg chr4 #4054	
186	Rbpsuh	3.5	3.9	7.9	2.0	ActReg chr5 #4517	
187	Map2k1	4.1	3.1	6.3	2.0	ActReg chr9 #6143	
188	Btbd10	3.7	4.4	9.0	2.0	ActReg chr7 #5480	
189	Phf20	3.1	3.1	6.3	2.0	ActReg chr2 #3596	

190	Zfp612	5.8	2.2	4.5	2.0	ActReg chr8 #5890	
191	Scamp2	3.3	3.4	6.9	2.0	ActReg chr9 #6116	
192	Sec14l1	2.7	2.8	5.6	2.0	ActReg chr11 #1198	
193	Polr2k	3.5	4.3	8.6	2.0	ActReg chr15 #1991	
194	Acox3	4.4	3.7	7.4	2.0	ActReg chr5 #4497	
195	Cox8a	2.7	3.4	6.8	2.0	ActReg chr19 #2958	
196	Ptges2	5.5	3.3	6.5	2.0	ActReg chr2 #3255	
197	Clcn3	3.5	3.7	7.2	2.0	ActReg chr8 #5719	
198	Tsga10	3.0	3.6	7.1	2.0	ActReg chr1 #43	
199	Pprc1	3.0	3.7	7.3	2.0	ActReg chr19 #3095	
200	Snx15	3.3	4.3	8.3	2.0	ActReg chr19 #2943	
201	D530005L17Rik	3.0	4.0	7.8	1.9	ActReg chr4 #4122	
202	Pdcd11	4.6	3.8	7.4	1.9	ActReg chr19 #3105	
203	Scrt1	3.5	3.3	6.3	1.9	ActReg chr15 #2053	
204	Plagl2	6.5	3.4	6.5	1.9	ActReg chr2 #3574	
205	Sptlc1	2.8	3.5	6.8	1.9	ActReg chr13 #1575	
206	Hipk3	3.9	3.5	6.7	1.9	ActReg chr2 #3395	
207	Usp36	2.8	3.5	6.7	1.9	ActReg chr11 #1202	
208	Bmpr1a	3.4	2.3	4.4	1.9	ActReg chr14 #1785	
209	BC018601	4.4	4.0	7.7	1.9	ActReg chr11 #716	
210	LOC622434	4.2	2.2	4.2	1.9	ActReg chr3 #3751	
211	Nap1l2	2.9	2.6	4.9	1.9	ActReg chrX #6470	
212	Cdc73	3.5	3.0	5.7	1.9	ActReg chr1 #235	
213	Txndc1	2.9	3.5	6.5	1.9	ActReg chr12 #1334	
214	Ahcyl1	4.5	3.9	7.3	1.9	ActReg chr3 #3908	
215	Apeh	3.3	2.9	5.4	1.9	ActReg chr9 #6273	
216	Pcmdt2	4.0	4.0	7.5	1.9	ActReg chr2 #3679	
217	D5Wsu178e	5.3	3.1	5.8	1.9	ActReg chr5 #4454	
218	1110008B24Rik	2.8	3.3	6.2	1.9	ActReg chr12 #1388	
219	1700111A04Rik	2.8	3.5	6.5	1.9	ActReg chr7 #5377	
220	Msi2h	3.1	3.3	6.2	1.8	ActReg chr11 #1038	
221	Rev3l	4.1	4.0	7.3	1.8	ActReg chr10 #433	
222	Angel1	5.3	2.5	4.6	1.8	ActReg chr12 #1398	

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