

Supplementary Table 1 - 4C reads distribution in each sample and library complexity

PPAR γ 4C-seq

Sample	Total no. of reads	No. reads on cis	% reads on cis	No. of HindIII sites with reads	No. HindIII sites on cis	% HindIII sites on cis
Day 0 rep 1	2473742	1933409	0.78	40322	13163	0.33
Day 1 rep 1	2551475	2168903	0.85	39423	15048	0.38
Day 2 rep 1	2241053	1753219	0.78	56068	17395	0.31
Day 6 rep 1	1718012	1510120	0.88	21035	7972	0.38
Day 0 rep 2	296578	230273	0.78	18762	7889	0.42
Day 1 rep 2	165153	139584	0.85	7789	4048	0.52
Day 2 rep 2	429788	348133	0.81	12513	5903	0.47
Day 6 rep 2	116031	102524	0.88	6225	2947	0.47
B cells	167558	145526	0.87	17203	9688	0.56
Average of both rep						
Day 0	1385110	1081841	0.78	53027	16005	0.3
Day 1	1358314	1154244	0.85	43852	16134	0.37
Day 2	1335421	1050676	0.79	63540	18987	0.3
Day 6	917021.5	806322	0.88	25653	9441	0.37

Lpin1 4C-seq

Sample	Total no. of reads	No. reads on cis	% reads on cis	No. of HindIII sites with reads	No. HindIII sites on cis	% HindIII sites on cis
Day 0 rep 1	2146467	1806105	0.84	30364	11555	0.38
Day 1 rep 1	3002206	2409940	0.8	27774	10581	0.38
Day 2 rep 1	2191348	1674150	0.76	41038	11232	0.27
Day 6 rep 1	1875284	1213728	0.65	12278	4344	0.35
Day 0 rep 2	2395394	1674737	0.7	25500	9150	0.36
Day 1 rep 2	1915630	1458460	0.76	11974	5089	0.43
Day 2 rep 2	2317460	1661729	0.72	13894	5469	0.39
Day 6 rep 2	867255	554952	0.64	5820	2335	0.4
B cells	1972550	1598672	0.81	39318	13499	0.34
Average of both rep						
Day 0	2270931	1740421	0.77	49099	15203	0.31
Day 1	2458918	1934200	0.79	35482	12303	0.35
Day 2	2254404	1667940	0.74	50089	12997	0.26
Day 6	1371270	884340	0.64	16500	5481	0.33

lfng 4C-seq

Sample	Total no. of reads	No. reads on cis	% reads on cis	No. of HindIII sites with reads	No. HindIII sites on cis	% HindIII sites on cis
Day 0 rep 1	1974525	1761859	0.89	56599	12303	0.22
Day 1 rep 1	1833201	1797657	0.98	26152	7018	0.27
Day 2 rep 1	2075226	1845918	0.89	72226	14366	0.2
Day 6 rep 1	1001119	964663	0.96	23012	6382	0.28
Day 0 rep 2	844042	736577	0.87	56597	9060	0.16
Day 1 rep 2	1857433	1751729	0.94	42310	8671	0.2
Day 2 rep 2	2040931	1923483	0.94	45491	8599	0.19
Day 6 rep 2	2008338	1955050	0.97	33180	7412	0.22
B cells	767419	725448	0.95	26076	10011	0.38
Average of both rep						
Day 0	1409284	1249218	0.89	95771	15044	0.16
Day 1	1845317	1774693	0.96	58071	11108	0.19
Day 2	2058079	1884701	0.92	98892	16121	0.16
Day 6	1504729	1459857	0.97	47698	9892	0.21

% of RE with reads on each chromosome from the total RE with reads

pparg	day 0	day 1	day 2	day 6	B
chr1	5.2%	4.6%	5.5%	5.5%	3.5%
chr10	3.9%	3.5%	4.1%	3.9%	2.5%
chr11	4.5%	4.5%	4.1%	3.2%	2.7%
chr12	2.9%	2.7%	3.0%	2.6%	2.2%
chr13	3.7%	3.5%	3.8%	3.7%	2.0%
chr14	3.0%	2.8%	3.2%	2.9%	2.3%
chr15	3.4%	2.9%	3.2%	2.8%	2.0%
chr16	2.9%	2.5%	2.8%	2.5%	2.0%
chr17	3.2%	2.9%	3.1%	2.5%	1.8%
chr18	2.5%	2.2%	2.4%	2.1%	1.5%
chr19	2.7%	2.5%	2.5%	2.1%	1.2%
chr2	6.0%	5.7%	6.0%	5.3%	3.7%
chr3	4.2%	3.5%	4.5%	4.5%	2.8%
chr4	3.8%	3.6%	3.8%	3.3%	2.8%
chr5	4.4%	4.0%	4.4%	4.4%	2.5%
chr6	30.2%	36.8%	29.9%	36.8%	56.4%
chr7	3.3%	3.2%	3.6%	3.2%	2.3%
chr8	4.3%	3.6%	4.2%	3.5%	2.4%
chr9	3.7%	3.3%	3.7%	3.2%	2.4%
chrX	2.1%	1.7%	2.3%	2.0%	1.0%

lfng	day 0	day 1	day 2	day 6	B
chr1	7.0%	6.8%	6.8%	6.4%	5.1%
chr10	15.7%	19.1%	16.3%	20.7%	38.4%
chr11	3.4%	3.3%	3.5%	3.4%	2.9%
chr12	4.2%	4.1%	4.0%	3.9%	3.1%
chr13	3.0%	2.8%	3.1%	2.8%	2.6%
chr14	3.5%	3.3%	3.4%	3.3%	2.8%
chr15	3.1%	2.9%	3.1%	2.9%	2.2%
chr16	8.0%	7.7%	7.8%	7.7%	5.3%
chr17	3.2%	3.0%	3.2%	3.1%	2.4%
chr18	2.9%	2.9%	2.9%	2.6%	1.9%
chr19	2.4%	2.3%	2.5%	2.4%	1.3%
chr2	6.1%	5.9%	6.0%	5.7%	5.0%
chr3	4.3%	4.0%	4.2%	3.8%	3.6%
chr4	3.8%	3.9%	4.0%	3.7%	3.4%
chr5	5.5%	5.3%	5.6%	5.4%	3.8%
chr6	9.3%	8.7%	9.0%	8.7%	5.8%
chr7	3.5%	3.4%	3.5%	3.4%	2.6%
chr8	4.6%	4.5%	4.8%	4.4%	3.0%
chr9	3.5%	3.5%	3.5%	3.3%	2.9%
chrX	2.9%	2.5%	2.7%	2.4%	1.8%

Lpin	day 0	day 1	day 2	day 6	B
chr1	4.6%	4.3%	4.9%	4.6%	3.9%
chr10	3.9%	3.4%	4.0%	3.6%	3.5%
chr11	4.0%	3.5%	4.2%	4.2%	4.4%
chr12	31.0%	34.7%	25.9%	33.2%	34.4%
chr13	3.1%	2.8%	3.4%	3.2%	3.6%
chr14	2.7%	2.6%	3.0%	2.8%	2.9%
chr15	3.5%	3.4%	3.6%	3.5%	3.7%
chr16	3.1%	2.9%	3.2%	2.9%	2.9%
chr17	3.3%	2.9%	3.2%	3.2%	3.0%
chr18	2.6%	2.6%	2.8%	2.3%	3.0%
chr19	3.1%	3.1%	3.2%	3.0%	3.1%
chr2	5.3%	5.0%	5.9%	5.1%	4.5%
chr3	3.5%	3.3%	3.9%	3.3%	3.4%
chr4	3.5%	3.5%	3.8%	3.4%	3.6%
chr5	3.9%	3.9%	4.6%	4.0%	3.7%
chr6	5.8%	5.7%	6.4%	5.8%	4.5%
chr7	3.7%	3.8%	4.2%	3.5%	3.3%
chr8	4.1%	3.7%	4.2%	3.5%	3.3%
chr9	3.4%	3.0%	3.4%	3.2%	3.7%
chrX	2.0%	2.1%	2.1%	1.8%	1.7%

Number of RE with reads for each sample

pparg	day 0	day 1	day 2	day 6	B	
chr1	2760	2000	3509	1404	596	
chr10	2073	1550	2629	1012	430	
chr11	2388	1958	2583	818	470	
chr12	1563	1174	1902	667	385	
chr13	1977	1520	2445	944	345	
chr14	1611	1243	2028	734	399	
chr15	1811	1288	2005	713	346	
chr16	1528	1087	1780	648	348	
chr17	1717	1270	1944	652	303	
chr18	1342	980	1537	543	256	
chr19	1424	1103	1584	547	203	
chr2	3177	2483	3815	1359	637	
chr3	2211	1531	2828	1153	479	
chr4	2012	1593	2437	835	485	
chr5	2351	1755	2821	1122	425	
chr6	16005	16134	18987	9441	9688	
chr7	1744	1407	2275	822	391	
chr8	2263	1585	2667	899	407	
chr9	1952	1443	2321	823	417	
chrX	1116	744	1437	515	178	

lfng	day 0	day 1	day 2	day 6	B	
chr1	6672	3955	6729	3051	1327	
chr10	15044	11108	16121	9892	10011	
chr11	3291	1935	3466	1620	762	
chr12	4007	2363	3968	1877	798	
chr13	2916	1650	3076	1315	688	
chr14	3315	1900	3376	1587	735	
chr15	2972	1674	3052	1381	582	
chr16	7678	4484	7712	3694	1383	
chr17	3027	1753	3138	1478	614	
chr18	2783	1690	2897	1252	505	
chr19	2338	1314	2468	1129	344	
chr2	5854	3451	5953	2706	1294	
chr3	4155	2316	4135	1819	934	
chr4	3614	2240	3983	1777	877	
chr5	5281	3096	5511	2557	1003	
chr6	8940	5062	8930	4137	1523	
chr7	3390	1964	3499	1604	677	
chr8	4405	2618	4780	2103	791	
chr9	3308	2026	3439	1590	755	
chrX	2775	1466	2652	1124	459	

Lpin	day 0	day 1	day 2	day 6	B	
chr1	2276	1523	2474		753	1532
chr10	1905	1189	2010		589	1391
chr11	1953	1249	2080		689	1736
chr12	15203	12303	12997		5481	13499
chr13	1504	1004	1697		520	1415
chr14	1320	906	1484		457	1141
chr15	1740	1216	1814		581	1440
chr16	1502	1032	1616		483	1141
chr17	1600	1043	1625		524	1163
chr18	1263	923	1420		378	1195
chr19	1529	1084	1599		493	1237
chr2	2600	1765	2948		840	1762
chr3	1705	1156	1956		540	1329
chr4	1729	1246	1898		553	1419
chr5	1927	1385	2295		665	1450
chr6	2848	2017	3219		963	1752
chr7	1815	1339	2110		583	1284
chr8	2006	1300	2097		579	1299
chr9	1675	1063	1710		530	1435
chrX	997	735	1038		296	678

Supplementary Table 2 -

Contact domains analysis for each bait in adipogenic cells throughout the differentiation and in B cells

sample	Total Domains	Cis Domains	Trans Domains	Genome Cov all (Mb)
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PPAR γ

Day 0	491	47	444	129.79
Day 1	488	39	449	132.35
Day 2	473	44	429	119.15
Day 6	405	47	358	87.09
B cells	279	35	244	64.27

Lpin1

Day 0	459	27	432	92.15
Day 1	410	26	384	88.32
Day 2	462	31	431	97.75
Day 6	398	27	371	84.30
B cells	450	30	420	96.14

Ifn γ

Day 0	351	29	322	100.95
Day 1	323	26	297	95.54
Day 2	340	37	303	100.18
Day 6	321	35	286	81.28
B cells	297	30	267	69.46

Supplementary Table 3

Adipogenic genes, termed by GO, within PPAR γ and Lpin1 contact domains

Genomic position			Gene symbol	PPAR γ contacts	Lpin1 contacts
chr1	64579377	64651122	Creb1		V
chr1	92849684	92850589	Prlh		V
chr1	145846467	145851279	Rgs2		
chr1	151947253	151955142	Ptgs2		
chr1	195128187	195170072	Lamb3	V	V
chr10	24361216	24431908	Enpp1		
chr10	38685320	38829994	Lama4		V
chr10	62781752	62801783	Sirt1		V
chr10	67000616	67004936	Egr2		
chr10	67558340	67741474	Arid5b		
chr10	75385968	75395208	Mmp11		
chr10	87321800	87399792	Igf1		
chr10	106954415	107157083	Ptprq		
chr10	110601857	110734303	Osbp18		
chr10	119798330	119913991	Hmga2	V	V
chr10	120471059	120537698	Wif1		
chr11	32247810	32328183	Sh3pxd2b		
chr11	59061543	59104253	Wnt3a		
chr11	68939878	68962617	Aloxe3		
chr11	69755787	69761692	Slc2a4		
chr11	83560441	83566148	1100001G20Rik		
chr11	97223864	97259856	Socs7	V	V
chr11	98013468	98054607	Med1		
chr12	3426856	3506849	Asxl2		V
chr12	15798532	15823591	Trib2		
chr12	16542474	16596576	Lpin1		
chr12	25778663	25780957	Id2		V
chr12	40759877	40764574	Arl4a		
chr12	72410870	72421094	Dact1		
chr12	85771667	85791900	Aldh6a1	V	
chr12	86940054	86980828	Jdp2	V	
chr12	113892031	113912487	Akt1	V	
chr13	48356795	48359405	Id4		
chr13	53562249	53568149	Msx2		
chr13	119503505	119581380	Fgf10		
chr14	29318658	29338701	Wnt5a	V	
chr14	45902761	45938247	Ero1l	V	V
chr14	102053183	102095342	Uchl3		
chr15	8239823	8394463	Nipbl		V
chr15	40486587	40936138	Zfpm2		
chr15	76845916	76881098	Mb	V	
chr15	79489656	79498090	Cby1		
chr15	98602182	98608581	Wnt10b	V	
chr15	98620287	98624261	Wnt1	V	
chr15	103144325	103170517	Zfp385a	V	V

chr16	10783901	10785629	Socs1		
chr16	14705951	14709475	Snai2		
chr16	15887378	15889638	Cebpd		V
chr16	23146608	23158041	Adipoq		
chr16	30065442	30067882	Hes1		V
chr16	33185156	33243398	Osbp11	V	V
chr16	38089086	38246165	Gsk3b		
chr16	90738568	90750021	Mrap		
chr17	13200704	13210985	Sod2		
chr17	25702837	25707631	Sox8		
chr17	26275630	26332756	Axin1	V	V
chr17	28369698	28438414	Ppard	V	
chr17	34335139	34338399	Psmb8		
chr17	43526414	43596506	Gpr116		
chr17	46434431	46440220	Dlk2		
chr17	47624998	47639236	Taf8		
chr17	56259100	56261369	Lrg1		
chr18	62337366	62339635	Adrb2		V
chr18	73732358	73752232	Mex3c		V
chr19	3584824	3686564	Lrp5	V	V
chr19	5453162	5457563	Ccdc85b	V	
chr19	8911956	8923173	Bscl2		V
chr19	38862617	38893727	Noc3l		
chr19	44468939	44482199	Scd1	V	V
chr19	55816299	56008145	Tcf7l2	V	V
chr19	56796861	56799352	Adrb1	V	
chr2	9778704	9800227	Gata3		
chr2	70802619	70893663	Mettl8		
chr2	71624995	71696484	Itga6	V	V
chr2	73654565	73730696	Atf2		
chr2	80252126	80287553	Frzb		
chr2	133377894	133388632	Bmp2		
chr2	134611899	135300994	Plcb1	V	
chr2	136907186	136942256	Jag1		
chr2	152163160	152169796	Trib3		
chr2	153171874	153229743	Asxl1		
chr2	158328347	158333934	Adig		
chr2	167514414	167515932	Cebpb	V	V
chr3	10204342	10208576	Fabp4		V
chr3	27315083	27609361	Fndc3b		
chr3	36762027	36951955	4932438A13Rik		
chr3	37211475	37220373	Bbs12		
chr3	57259565	57379832	Wwtr1		V
chr3	83570242	83578236	Sfrp2	V	
chr3	94737004	94748680	Selenbp1		
chr4	13670448	13822202	Runx1t1		V
chr4	55540008	55545347	Klf4	V	
chr4	124795657	124805125	Zc3h12a		
chr4	128814303	128821837	Fndc5		V
chr4	153690233	154010982	Prdm16		

chr5	28397951	28405202	Insig1		V
chr5	33590371	33617653	Ctbp1	V	V
chr5	100982751	101001224	Plac8		
chr5	114062363	114100399	Cmklr1		
chr5	125497522	125659584	Ncor2		
chr5	136694018	136720773	Sh2b2	V	
chr5	139899132	139903754	Gper1	V	
chr5	150214380	150234278	Medag		
chr6	29010220	29023876	Lep		
chr6	48519696	48522669	Rarres2		
chr6	53523367	53645826	Creb5	V	V
chr6	70794520	70855234	Eif2ak3		
chr6	85537524	85652745	Alms1	V	
chr6	88148657	88157026	Gata2	V	V
chr6	115311238	115440419	Pparg		V
chr6	118452581	118512274	Ankrd26		V
chr6	119382548	119494365	Wnt5b		
chr6	134396495	134516931	Lrp6	V	
chr6	134780216	134807901	Crebl2		
chr7	26472020	26490015	Tgfb1		
chr7	35904311	35906951	Cebpa	V	V
chr7	52462894	52467253	Dkk1	V	V
chr7	86882149	86887911	Pex11a		
chr7	104698840	104728007	Aamdc	V	V
chr7	133960398	133973733	Fam57b	V	V
chr7	135390384	135397226	Tgfb1i1		
chr7	140178693	140315166	Ctbp2	V	V
chr7	146082518	146101189	Bnip3		
chr7	152115835	152125830	Ccnd1	V	
chr8	3655769	3659818	Retn		V
chr8	24521973	24560104	Sfrp1		
chr8	28336247	28340060	Adrb3		
chr8	116657478	116676205	Nudt7		
chr8	124806040	124861147	Zfpm1	V	V
chr9	21351337	21393909	Carm1		V
chr9	21639953	21641791	Gm6484		V
chr9	48462401	48644050	Zbtb16		V
chr9	108241410	108242673	Gpx1	V	
chrX	74756565	74905604	Tbl1x		

Supplementary Table 4 - Genes within *PPARγ* and *Lpin1* clusters
Genes within clusters of *PPARγ* dynamic chromosomal contacts

Cluster1 **Transient Day 0**

Adipogenic genes

chr12	86687262	86953703	chr12	86940054	86980828	Jdp2
chr12	113714279	113986356	chr12	113892031	113912487	Akt1
chr16	33170530	33731056	chr16	33185156	33243398	Osbpl11
chr3	83516061	83647563	chr3	83570242	83578236	Sfrp2
chr7	52391814	52943827	chr7	52462894	52467253	Dkk1
chr9	107564579	108353168	chr9	108241410	108242673	Gpx1

All genes

chr1	38066891	38786936	chr1	38054854	38112424	Eif5b
chr1	38066891	38786936	chr1	38109630	38186507	Rev1
chr1	38066891	38786936	chr1	38234171	38721800	Aff3
chr1	59704716	59866391	chr1	59748801	59748854	Snord70
chr1	59704716	59866391	chr1	59761651	59761714	Snord11
chr1	59704716	59866391	chr1	59696277	59727678	Sumo1
chr1	59704716	59866391	chr1	59741849	59768354	Nop58
chr1	59704716	59866391	chr1	59821122	59934925	Bmpr2
chr1	74172175	74299998	chr1	74238359	74241205	Cxcr1
chr1	74172175	74299998	chr1	74200567	74207820	Cxcr2
chr1	74172175	74299998	chr1	74283123	74314787	Arpc2
chr1	74172175	74299998	chr1	74172114	74194804	Rufy4
chr1	74444174	74679527	chr1	74634934	74639017	Bcs1l
chr1	74444174	74679527	chr1	74455957	74482134	Vil1
chr1	74444174	74679527	chr1	74552633	74577416	Rqcd1
chr1	74444174	74679527	chr1	74589462	74612551	Plcd4
chr1	74444174	74679527	chr1	74611701	74634602	Zfp142
chr1	74444174	74679527	chr1	74640325	74647971	Rnf25
chr1	74444174	74679527	chr1	74648028	74683467	Stk36
chr1	74444174	74679527	chr1	74482083	74590860	Usp37
chr1	90726250	90998383	chr1	90912687	90918785	1700067G17Rik
chr1	90726250	90998383	chr1	90967036	91050368	Sh3bp4
chr1	92929772	93192934	chr1	93076398	93121773	Ramp1

chr1	92929772	93192934	chr1	93146895	93182602	Ube2f
chr1	92929772	93192934	chr1	92895303	93025521	Lrrfip1
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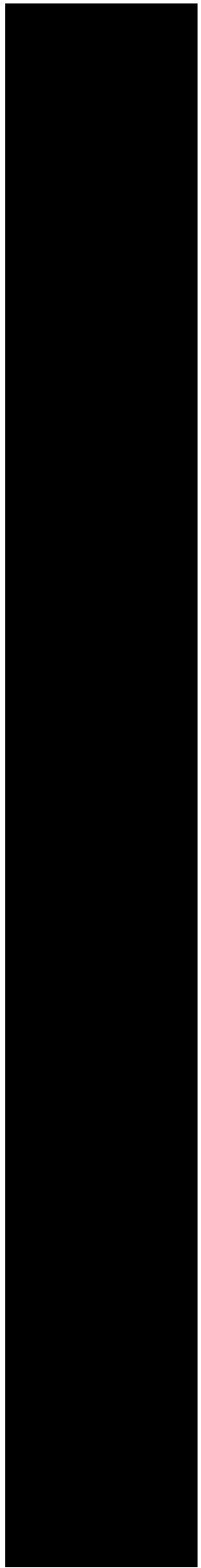
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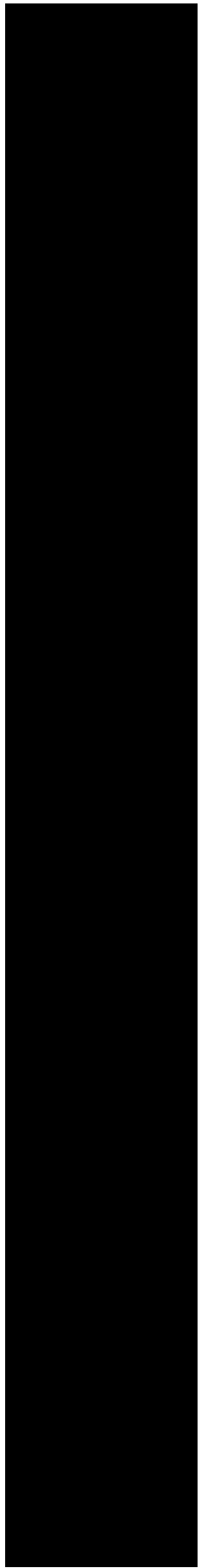
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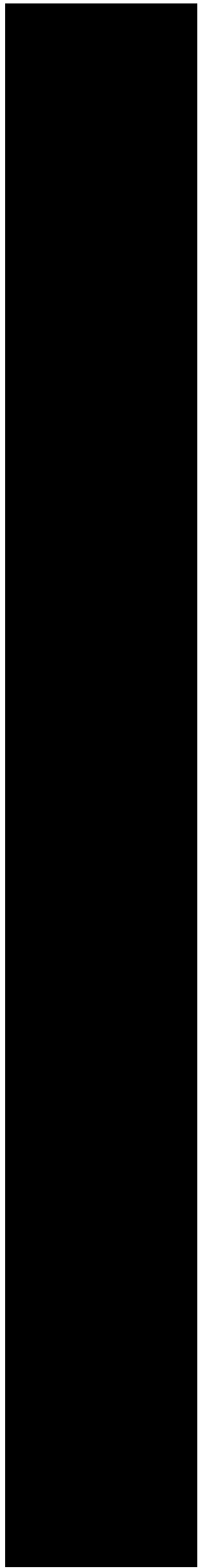
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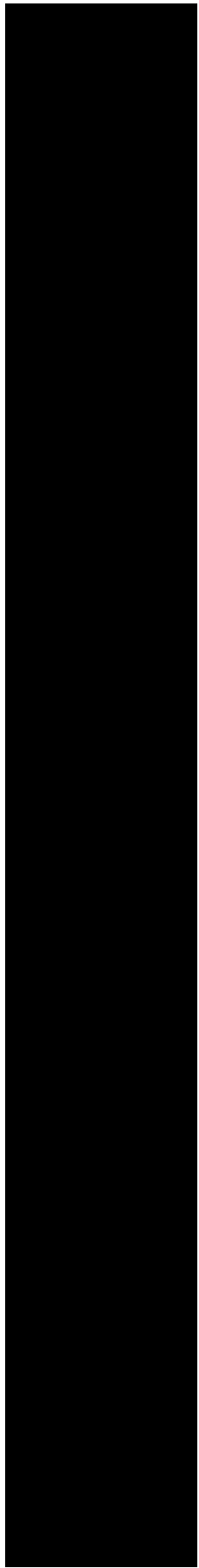
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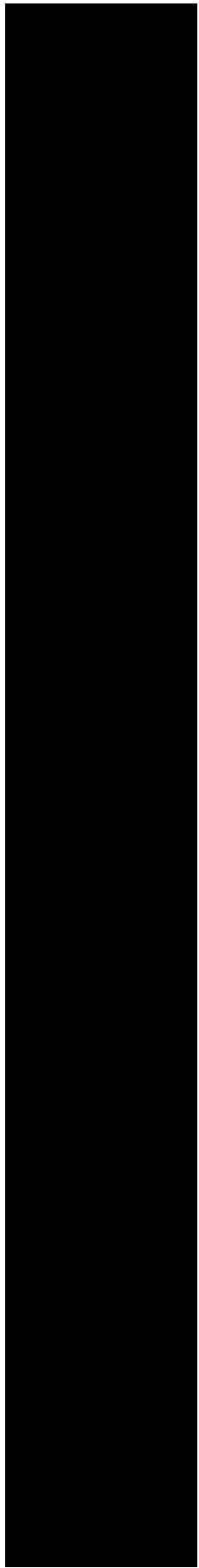


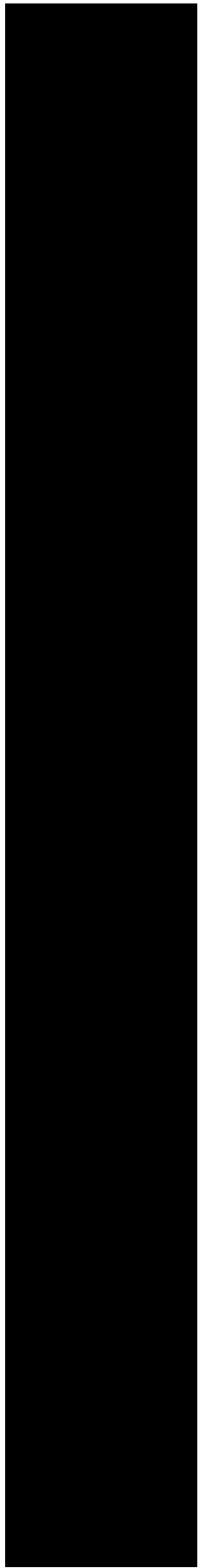


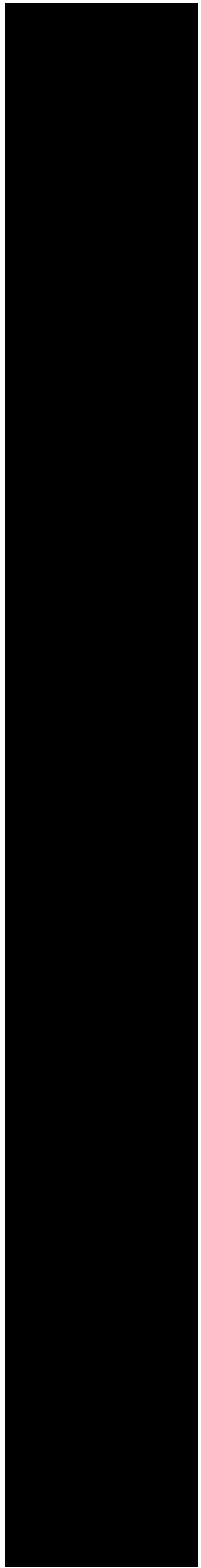


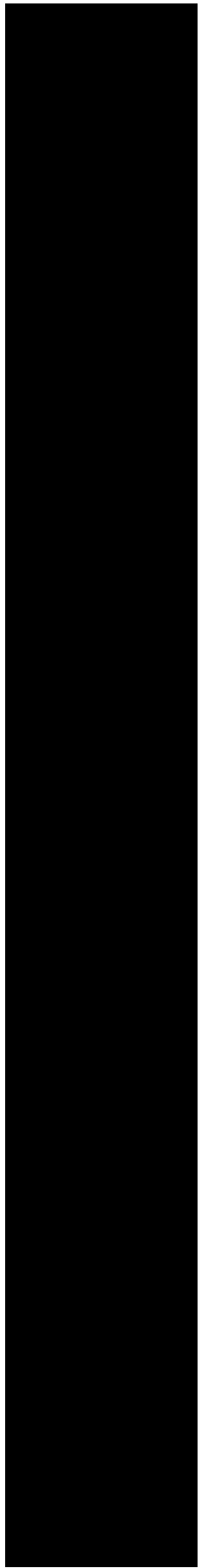


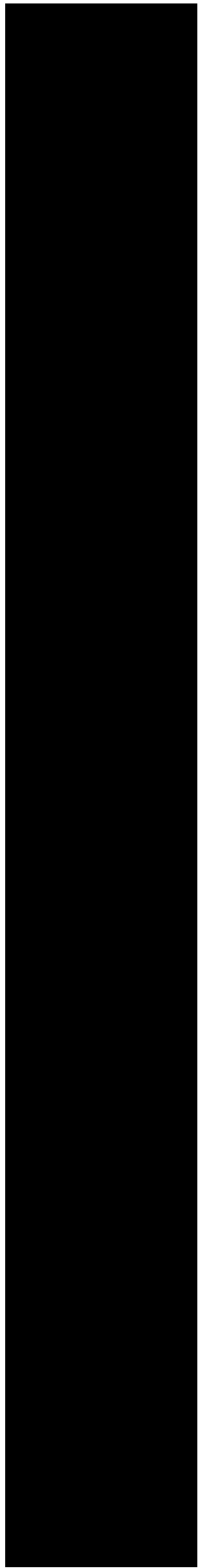


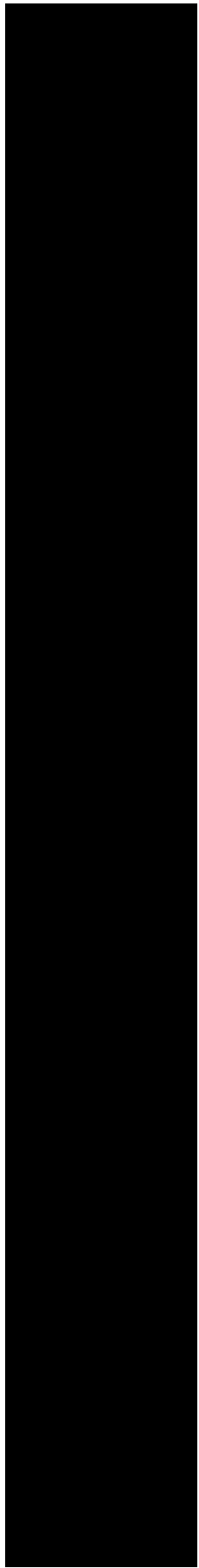


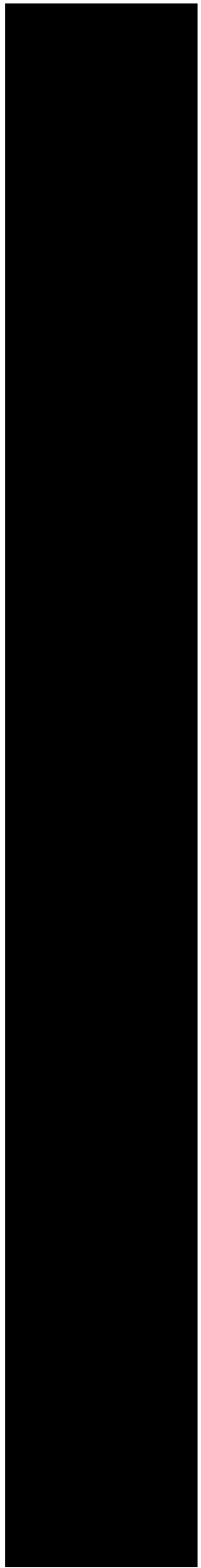


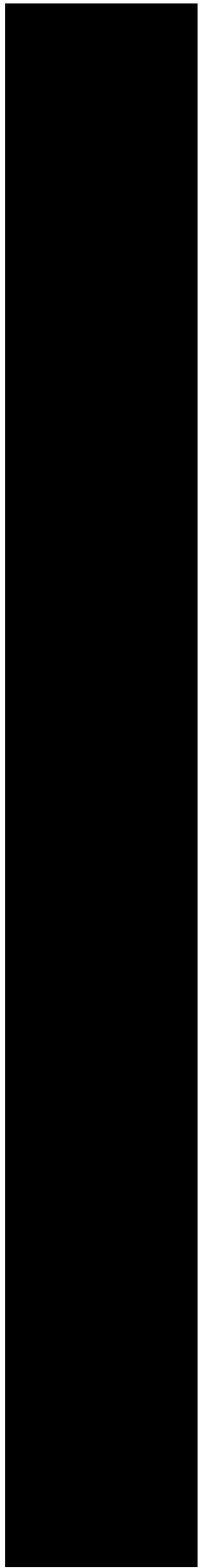


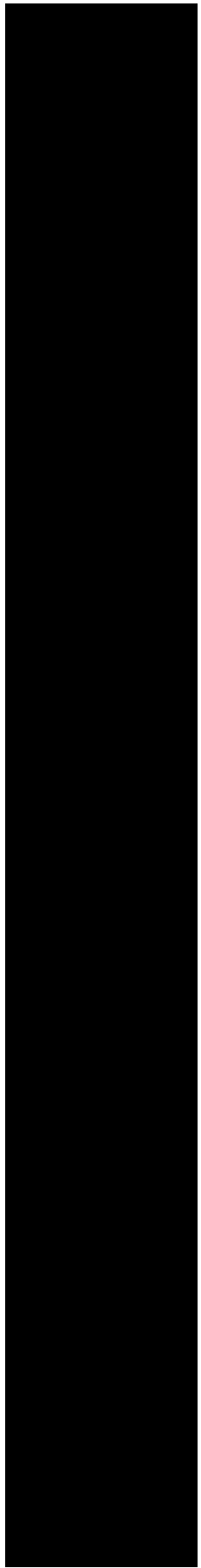


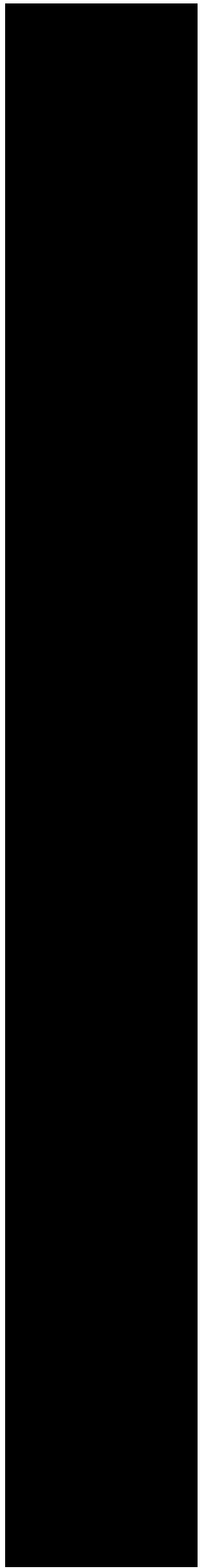


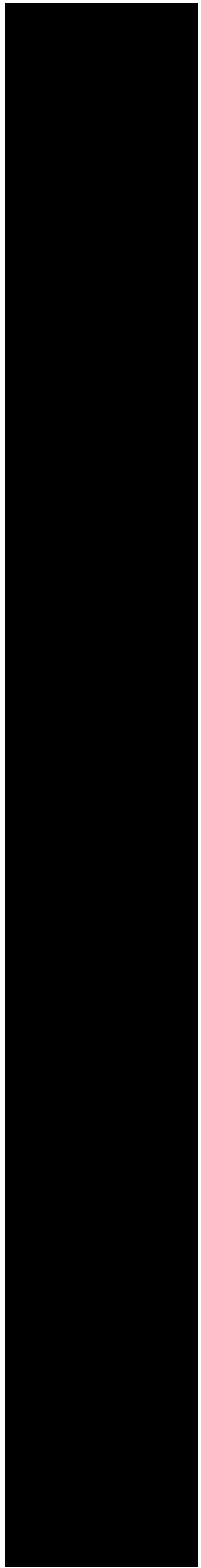


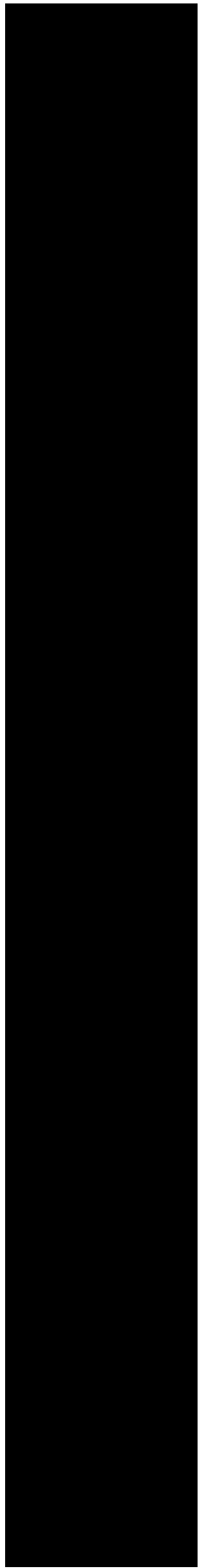


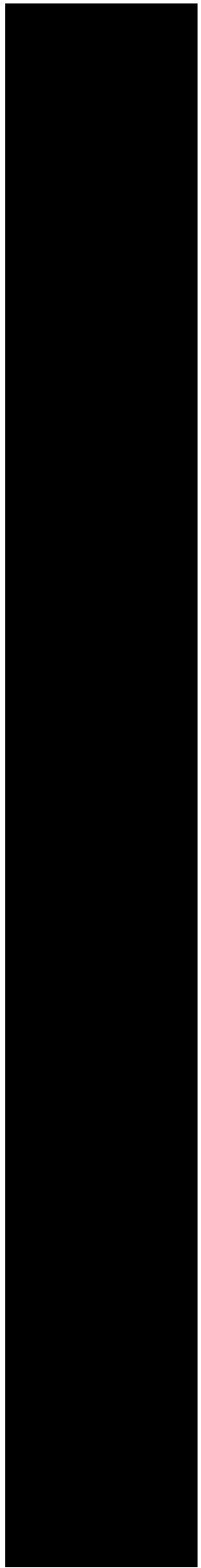


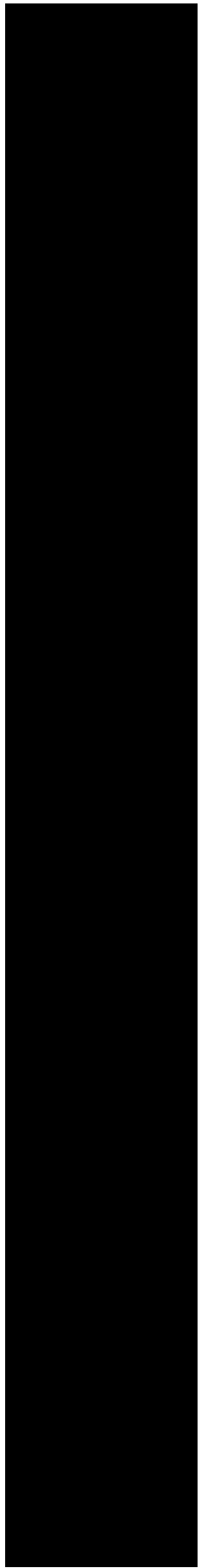


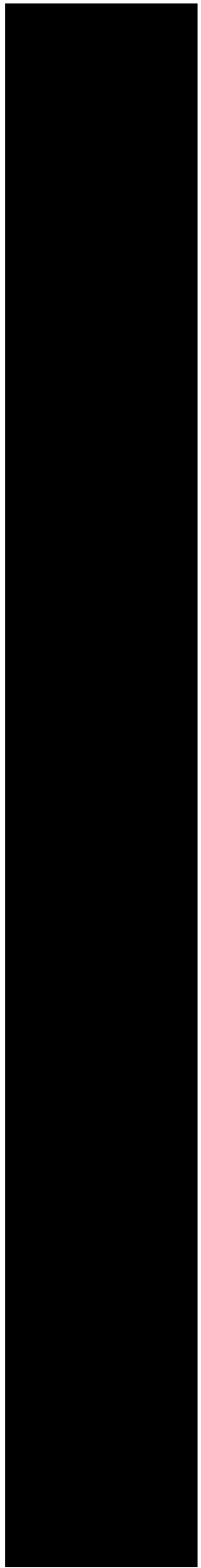


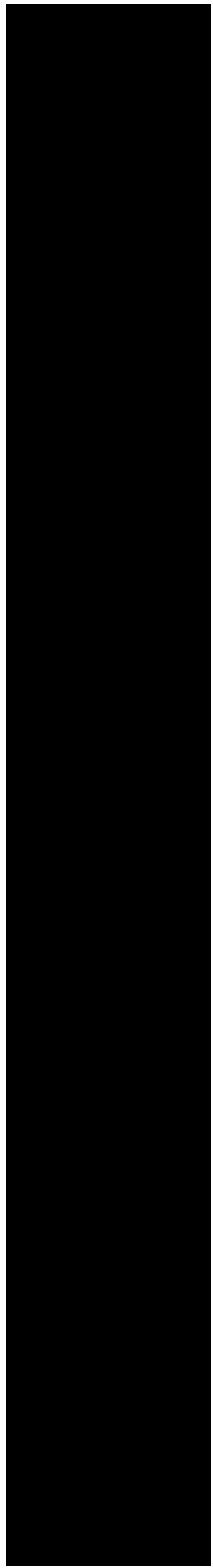












Cluster2 **Transient Day 1**

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All genes

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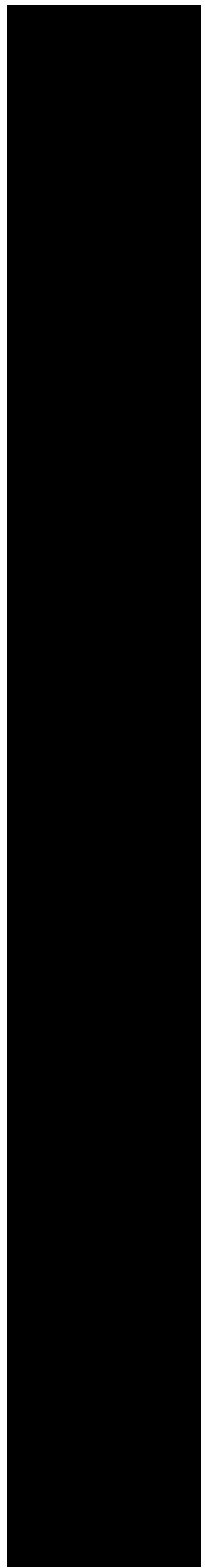
















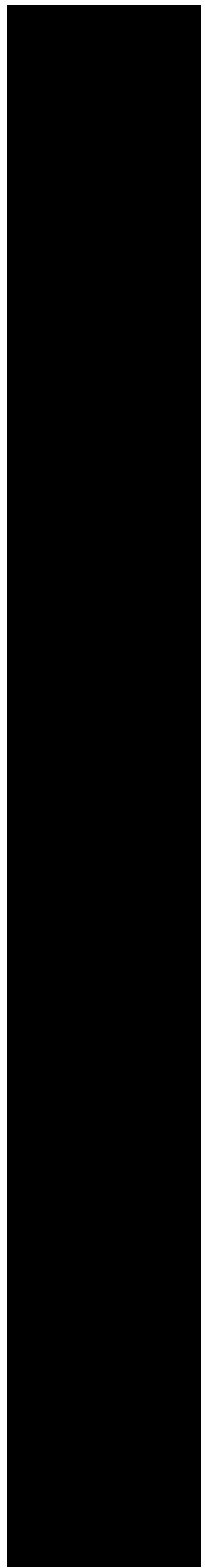
















Cluster3 **Transient Day 2**

Adipogenic genes

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chr14	29207533	29360242	chr14	29318658	29338701	Wnt5a
chr7	35803644	36006056	chr7	35904311	35906951	Cebpa

All genes

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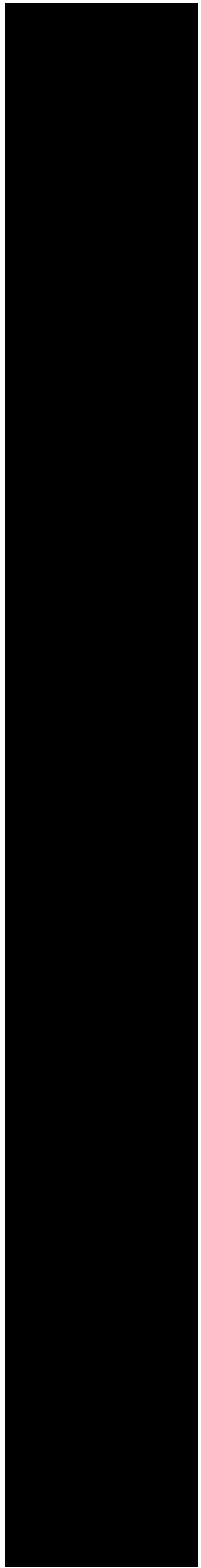
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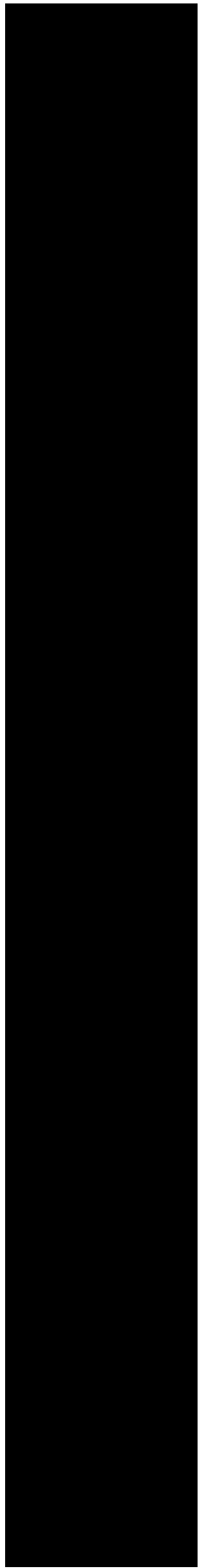
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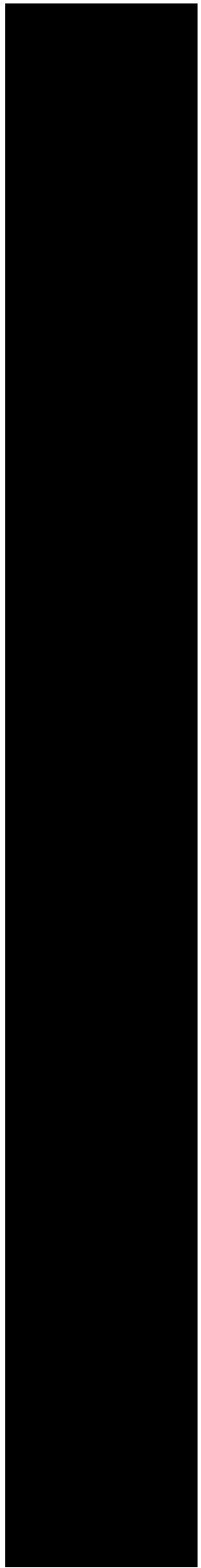
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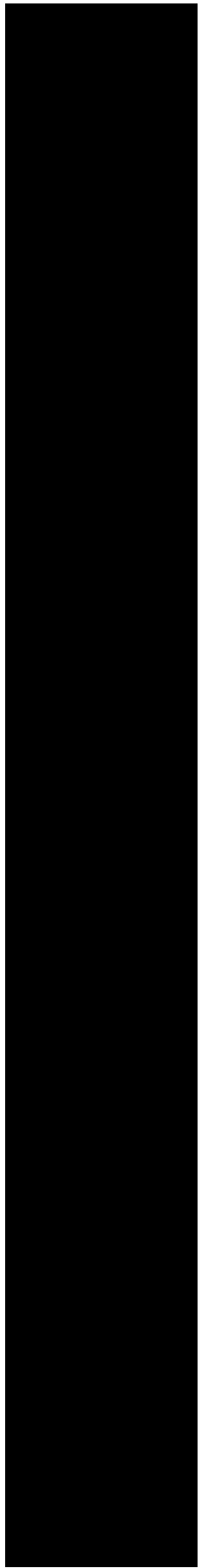
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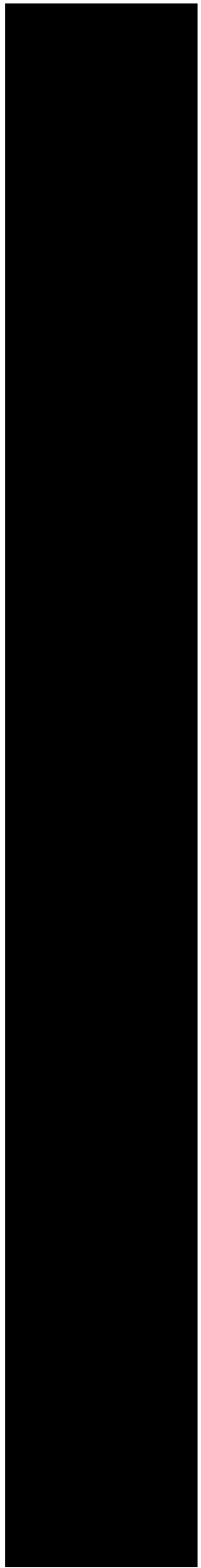


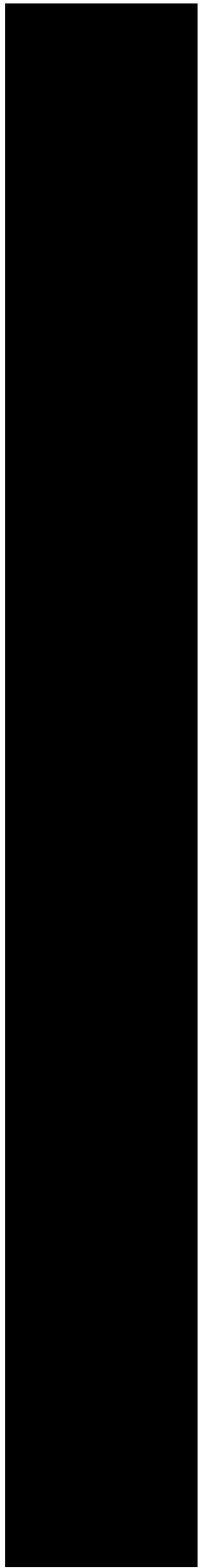


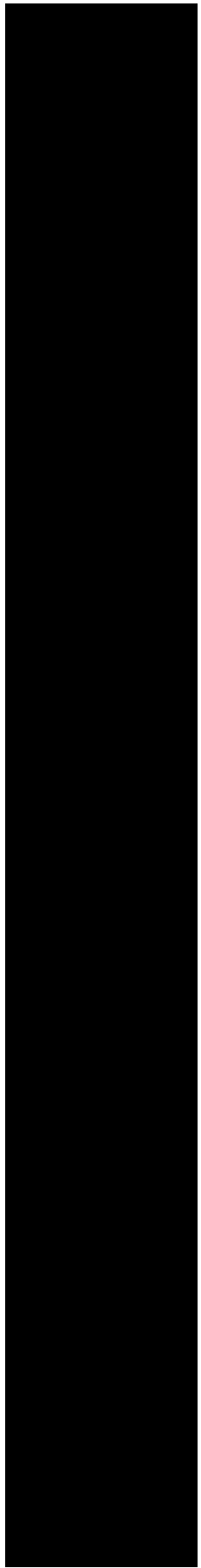


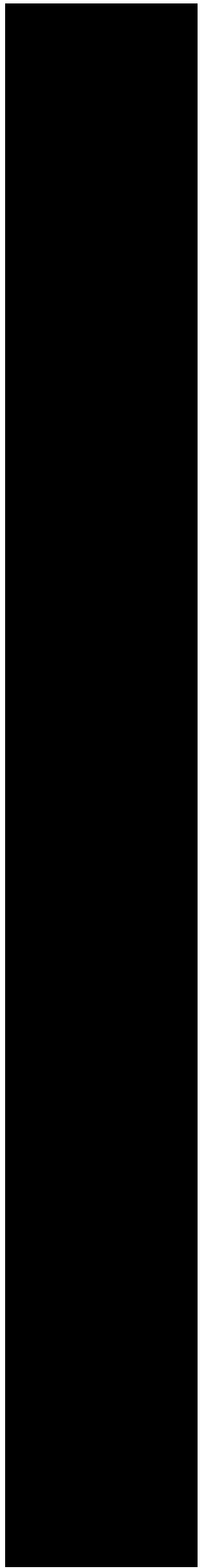


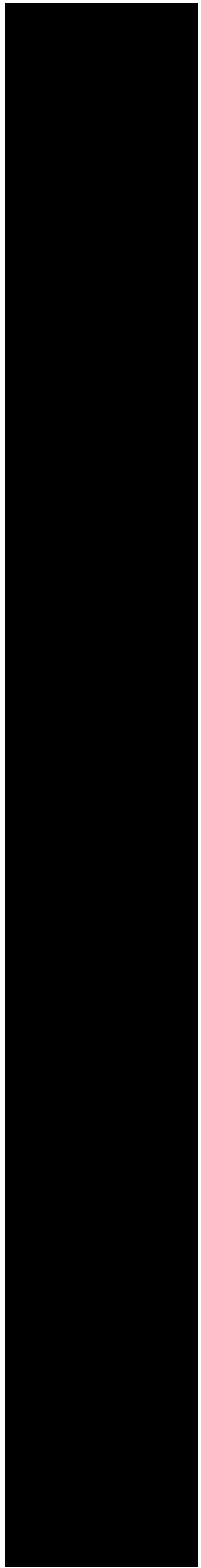


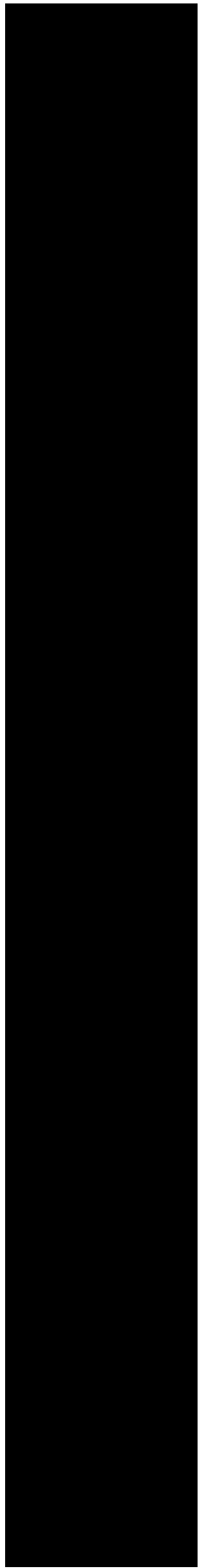


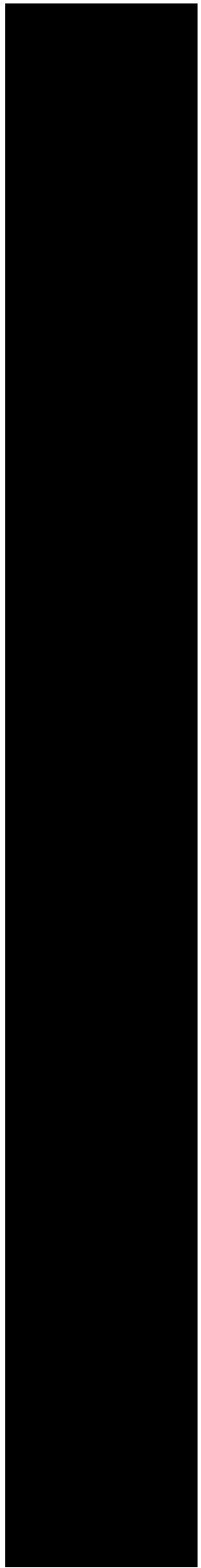


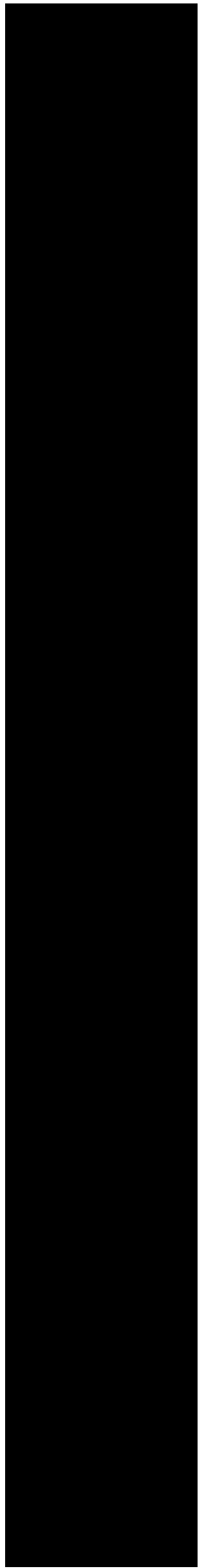


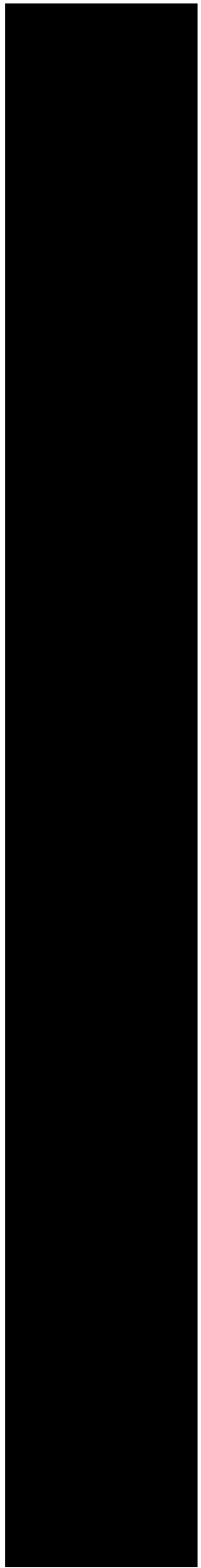


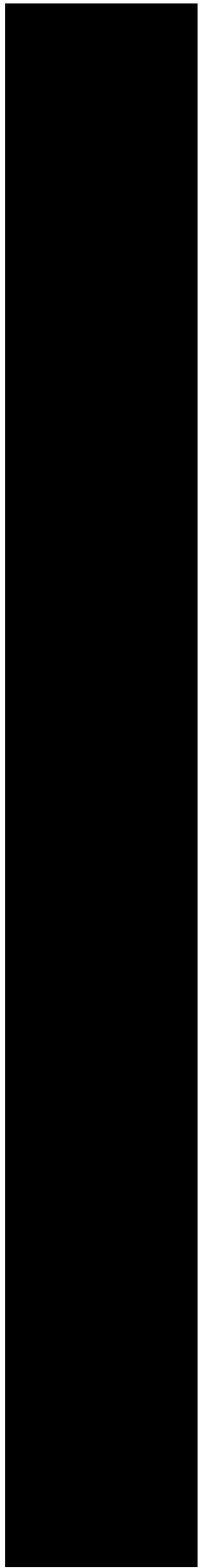


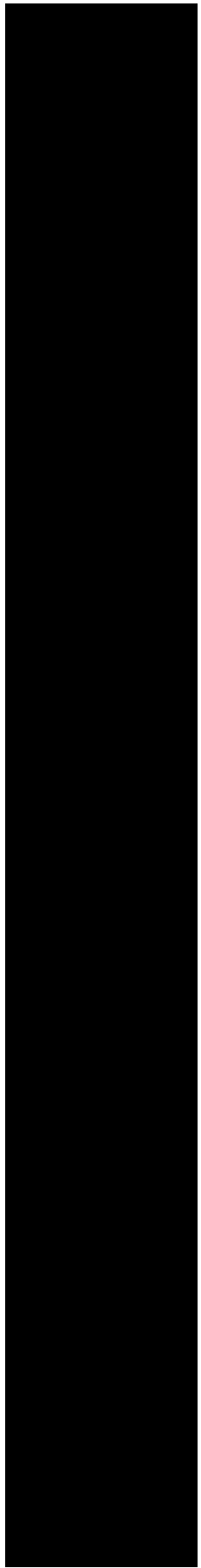


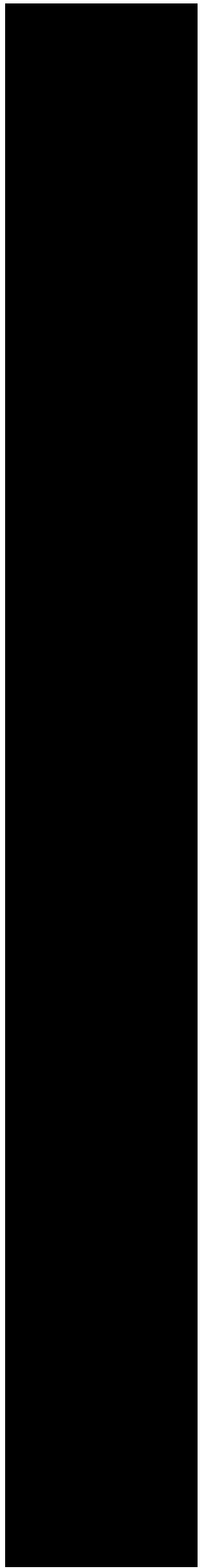


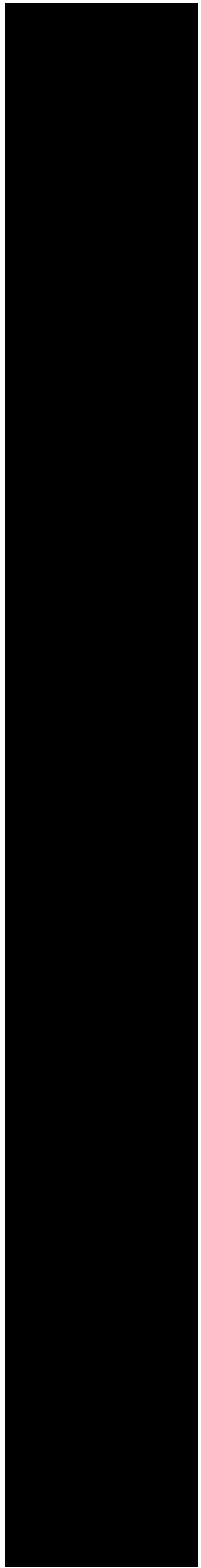


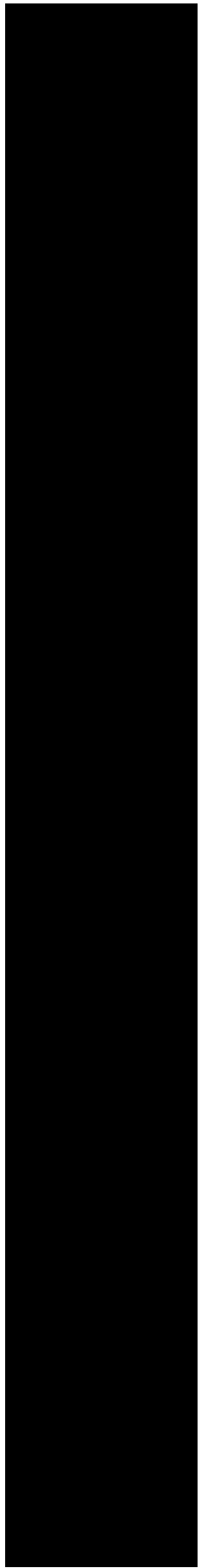


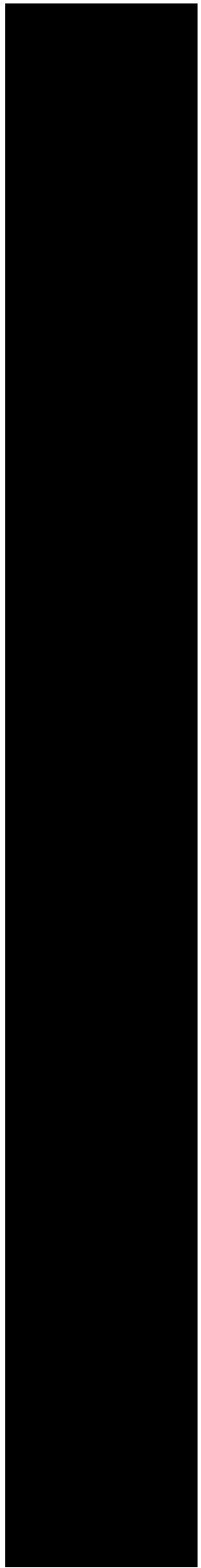


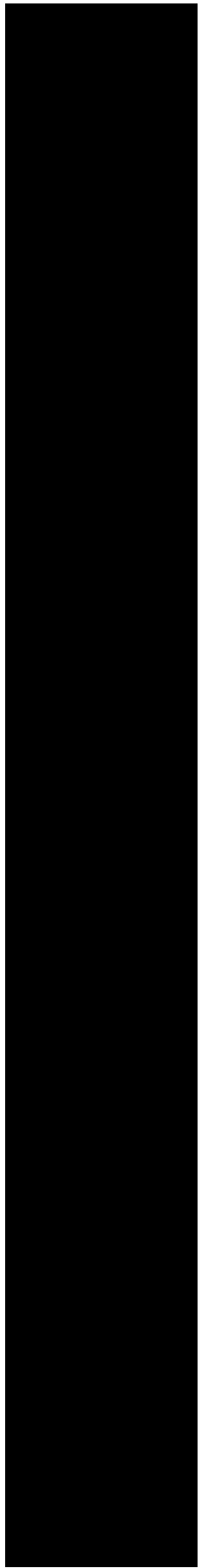


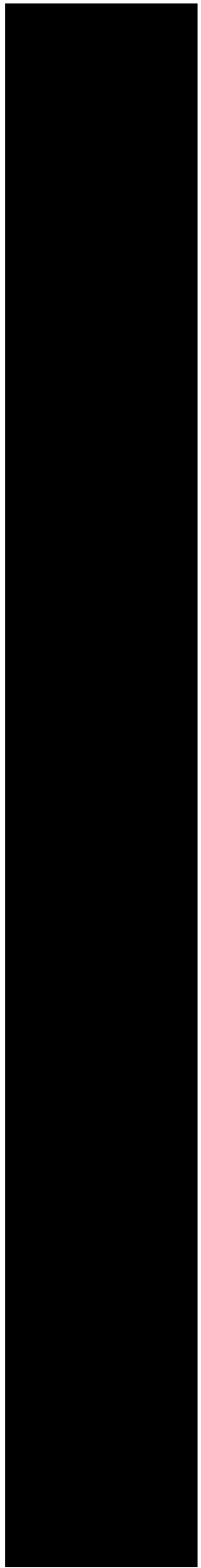


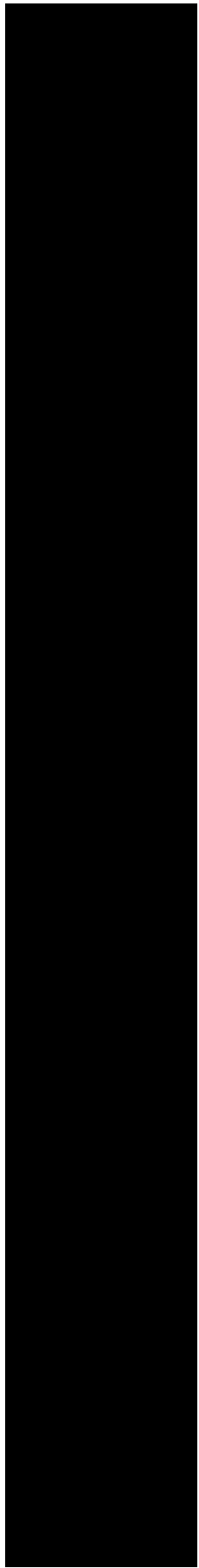


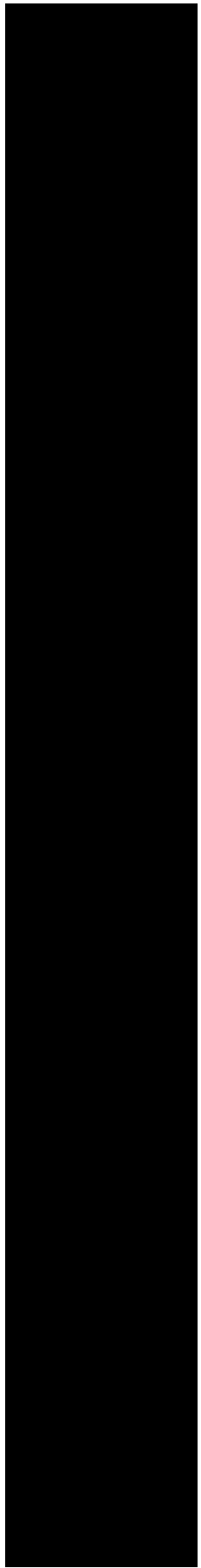


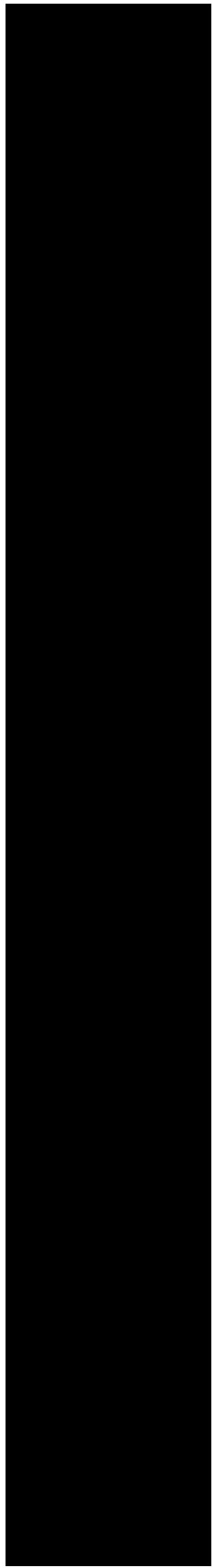












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