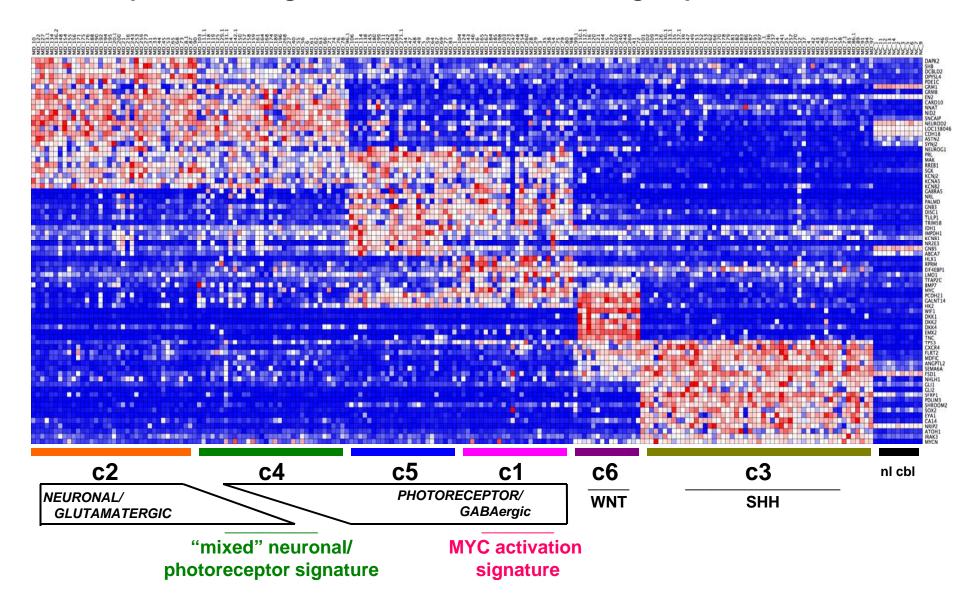
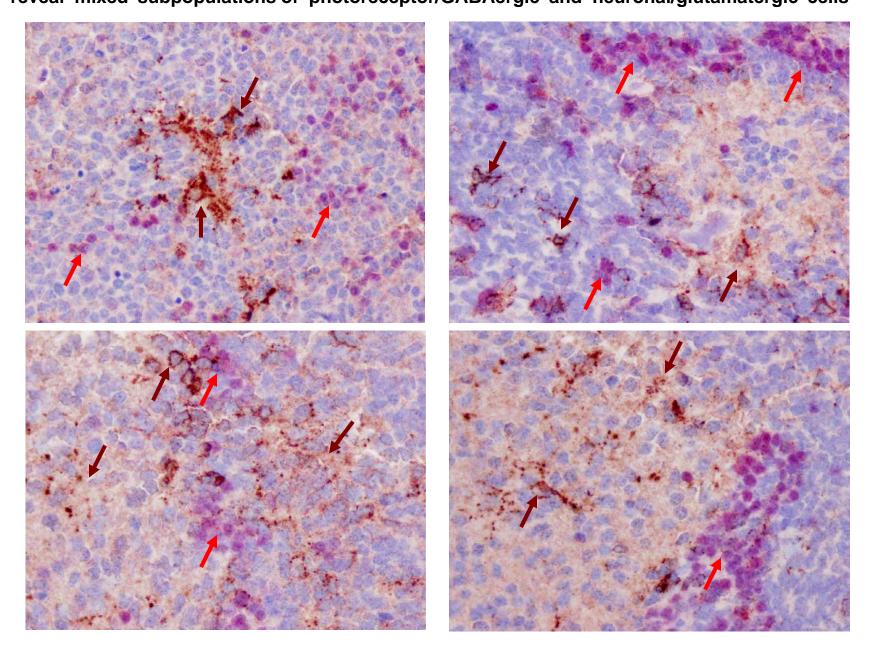
Heatmap of selected gene markers across NMF subgroups

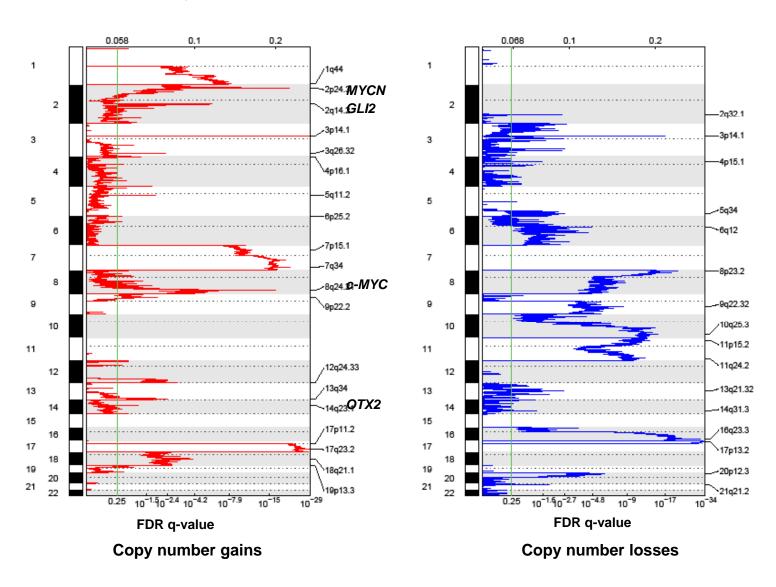


Supplementary Figure S2

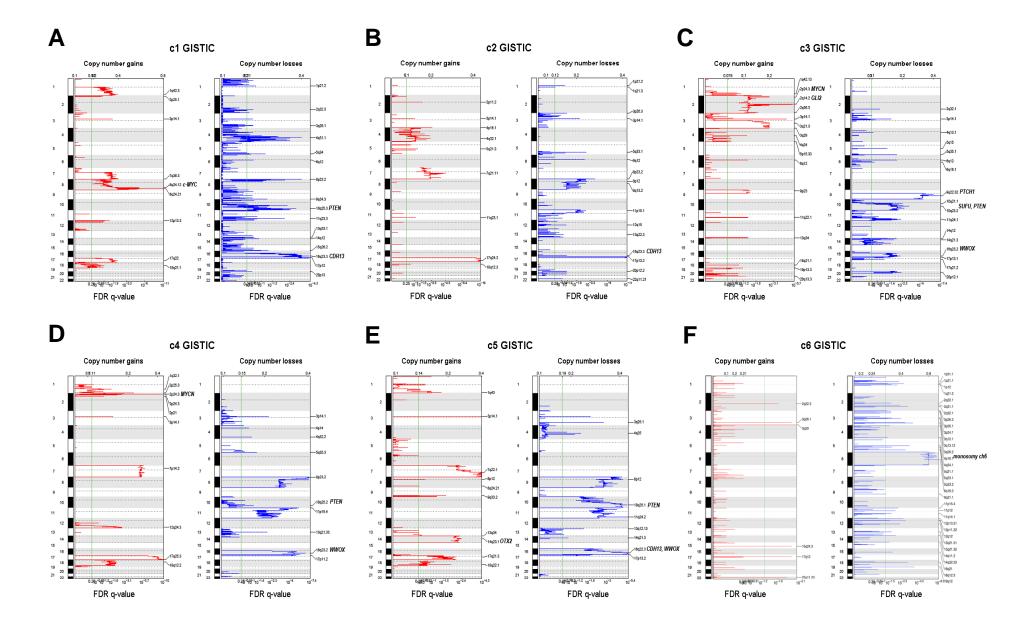
Representative 'c4' subgroup tumors immunostained with anti-CRX (red) and anti-GRM8 (brown) reveal 'mixed' subpopulations of 'photoreceptor/GABAergic' and 'neuronal/glutamatergic' cells



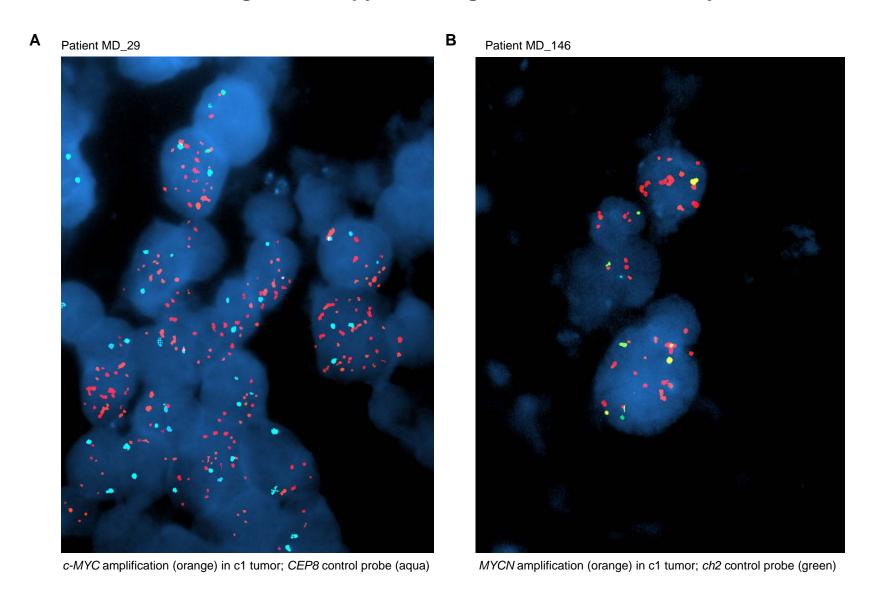
GISTIC analysis for all medulloblastoma samples



Supplementary Figure S4

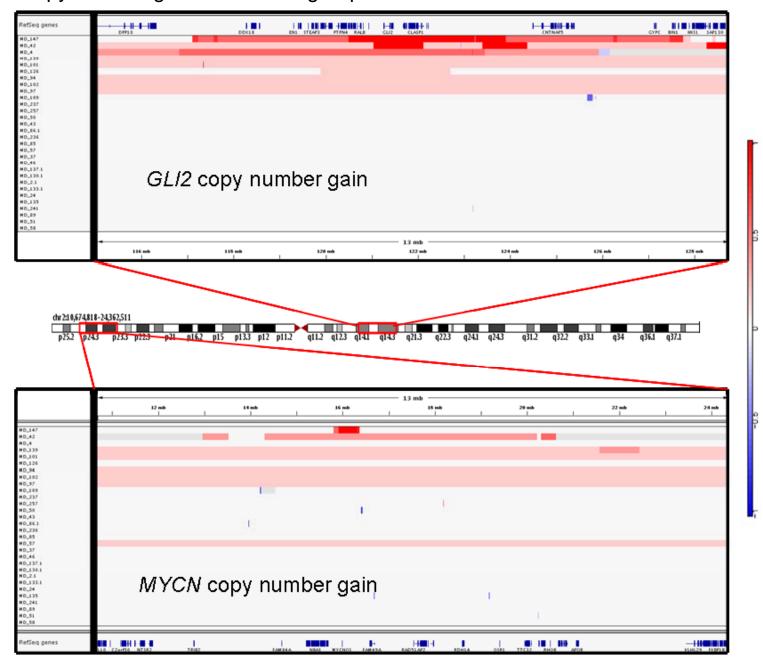


Fluorescence in situ hybridization for c-MYC (A) and MYCN (B) in representative c1 tumors confirms high-level copy number gains seen on SNP analysis



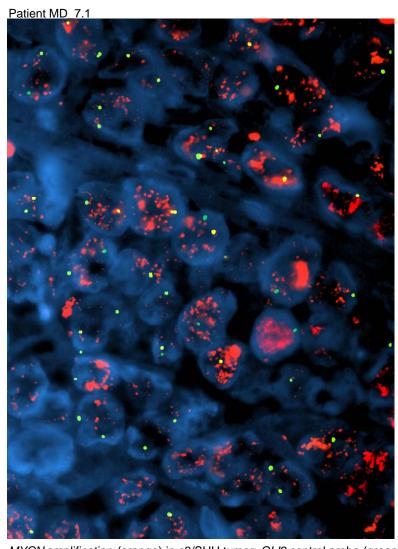
Supplementary Figure S6

GLI2 and MYCN copy number gain in SHH subgroup medulloblastomas

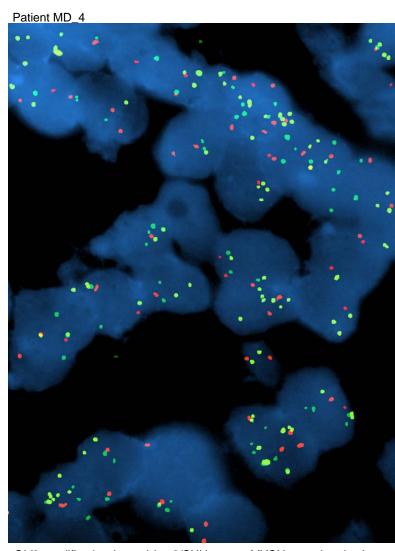


Supplementary Figure S7

Fluorescence in situ hybridization for MYCN and GLI2 in representative c3 (SHH) subgroup tumors confirms copy number gains noted on SNP array analysis



MYCN amplification (orange) in c3/SHH tumor; GLI2 control probe (green)

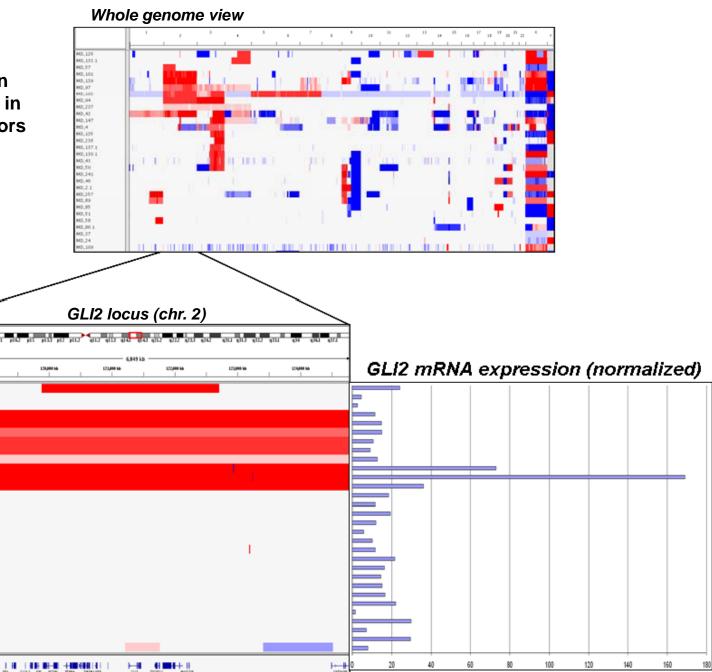


GLI2 amplification (green) in c3/SHH tumor; MYCN control probe (orange)

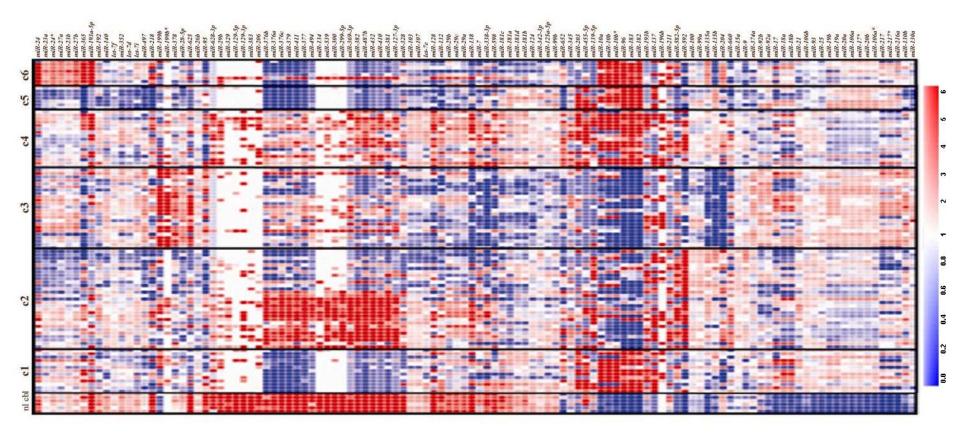
MD_133.1 MD_57 MD_101 MD_139 MD_97 MD_102 MD_94 MD_237 MD,42 MD,147 MD_4 MD_135 MD,236 MD_137.1 MD_130.1 MD_43 MD_50 MD,241 MD,46 MD,257 MD_89 MD_85 MD_86.1 MD_37 MD,24 MD_109 RefSeq genes

M114 W052

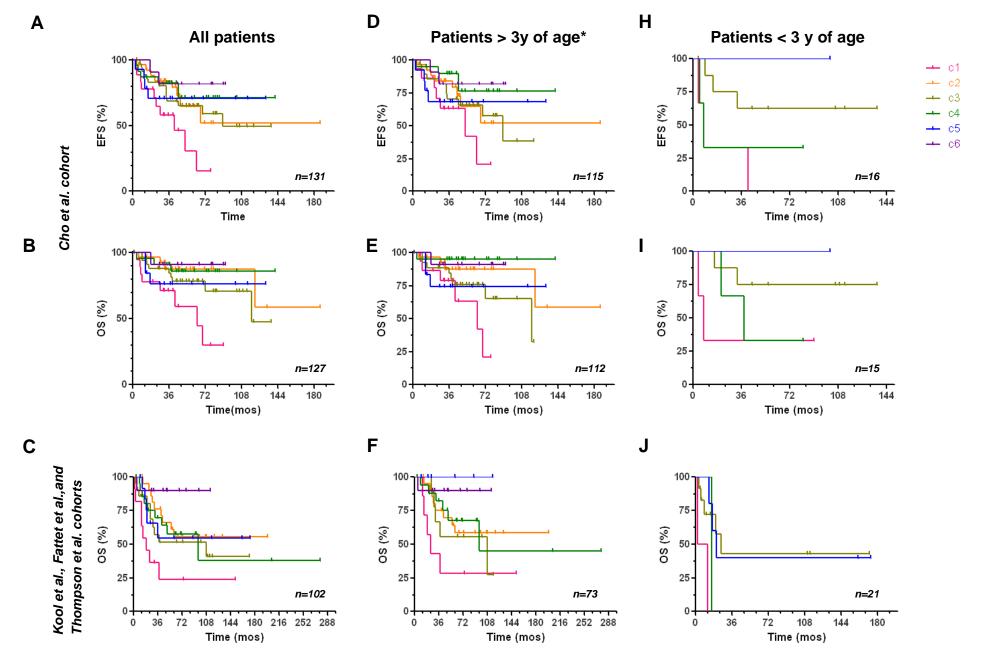
GLI2 copy number gain and mRNA expression in c3/SHH subgroup tumors

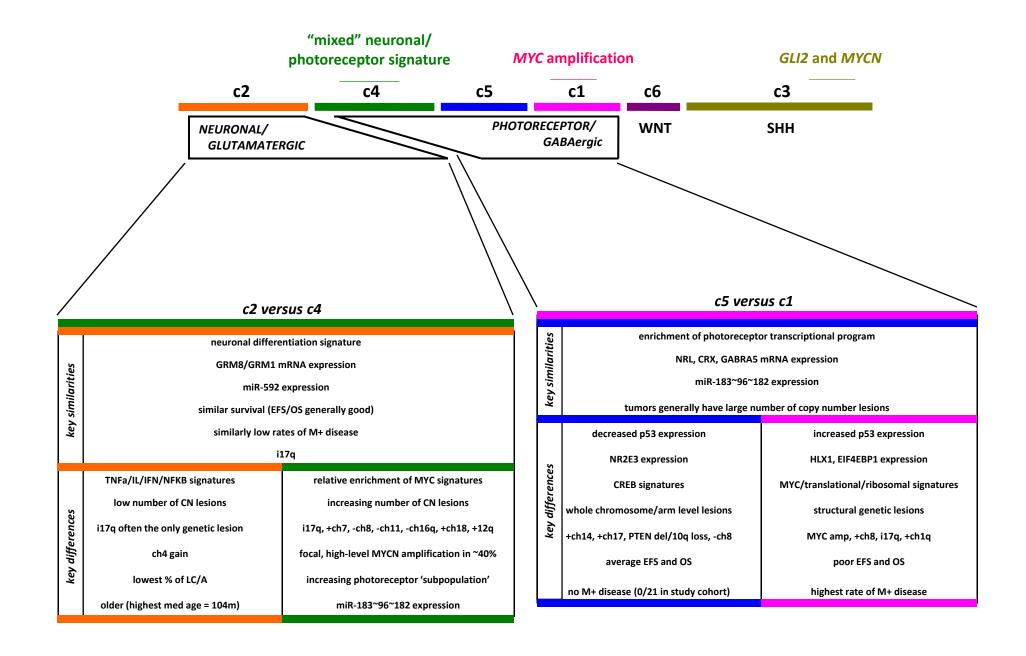


miRNA heatmap of 104 most variant miRNA probes

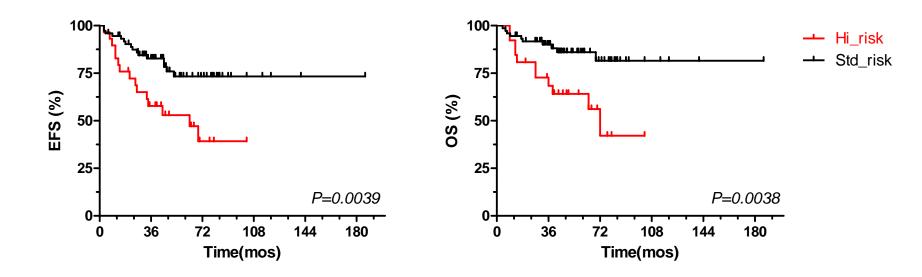


Supplementary Figure S10





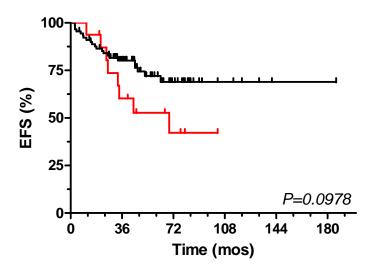
Survival analysis (EFS and OS) of patients categorized as 'Hi-risk'* or 'standard-risk'*

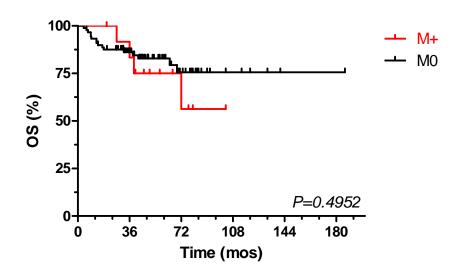


^{*&#}x27;Hi-risk' defined as <3 years of age or >3 years of age with M+ disease, LC/A histology or bulk residual tumor after resection greater than 1.5 cm3

^{**&#}x27;standard-risk' defined as >3 years of age with M0 disease, no evidence of large cell or anaplastic features on histology and residual disease less than 1.5 cm3

Survival analysis (EFS and OS) of patients categorized by 'M+' versus 'M0' disease





Survival analysis (EFS and OS) of patients categorized by histological subtype

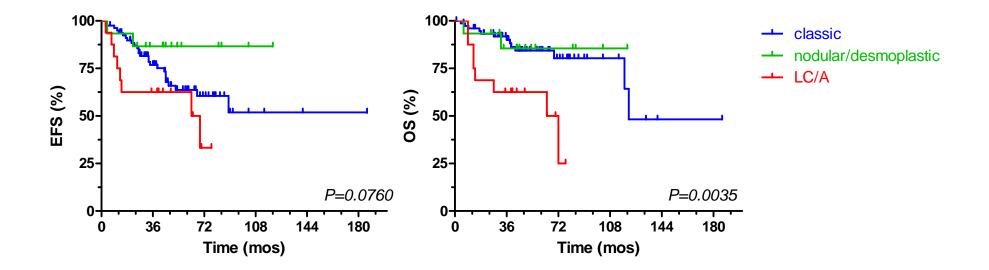


Table S1

	Gene set name	Description	Database	NES*	nom P-value*
с1	MYC_TARGETS	Myc-responsive genes (39) reported in multiple systems.	MSigDB v2.5/C2	2.2470677	<0.0001
с1	ZELLER_MYC_UP	Genes (23) upregulated by MYC in >3 papers.	MSigDB v2.5/C2	2.0984483	<0.0001
с1	HAS00970_AMINOACYL_TRNA_BIOSYNTHESIS	Genes (38) involved in aminoacyl-tRNA biosynthesis. KEGG	MSigDB v2.5/C2	1.986022	<0.0001
с1	TRANSLATION_FACTORS	Translation factor genes (52) GenMAPP	MSigDB v2.5/C2	1.9820051	0.0020202
с1	PENG_RAPAMYCIN_DN	Genes (229) downregulated in response to rapamycin starvation	MSigDB v2.5/C2	1.9357171	0.0021786
с1	BRCA_BRCA1_POS	Genes (107) whose expression is consistently positively correlated with brca1 germline status.	MSigDB v2.5/C2	1.9152514	<0.0001
c2	CREBPATHWAY	BIOCARTA (27 genes)	MSigDB v2.5/C2	1.9477868	0.0044248
c2	IL22BPPATHWAY	IL-22 (13) is produced by T cells and induces the acute phase inflammatory response in hepatocytes.	MSigDB v2.5/C2	1.7755636	0.010661
c2	PTENPATHWAY	BIOCARTA (18 genes)	MSigDB v2.5/C2	1.6823599	0.0331126
c2	P21_ANY_UP	Genes (8) upregulated at any timepoint after ectopic expression of CDKN1A in OvCa cells.	MSigDB v2.5/C2	1.6680897	0.0296128
c2	STAT3PATHWAY	BIOCARTA (8 genes)	MSigDB v2.5/C2	1.5071098	0.0566038
c2	IFNGPATHWAY	BIOCARTA (6 genes)	MSigDB v2.5/C2	1.5038848	0.0566038
с3	POMEROY_DESMOPLASIC_VS_CLASSIC_MD_UP	Genes (47) upregualted in desmoplastic medulloblastomas relative to classic medulloblastomas	MSigDB v2.5/C2	2.1249564	<0.0001
с3	HAS03010_RIBOSOME	Genes (98) involved in ribosome. KEGG	MSigDB v2.5/C2	1.7778438	0.0116959
с3	LEE_MYC_UP	Genes (54) upregulated in hepatoma tissue of Myc transgenic mice.	MSigDB v2.5/C2	1.6206341	0.0239651
с3	VANASSE_BCL2_TARGETS	Genes (113) differentially expressed after ectopic expression of Bcl-2 in murine CD19+ B-cells.	MSigDB v2.5/C2	1.5597178	0.0141844
с3	P53PATHWAY	BIOCARTA (16 genes)	MSigDB v2.5/C2	1.5274951	0.0453515
с3	GCNP_SHH_LATE.V1_UP	Genes (148) upregulated with activation of the SHH pathway .	OPAM.v3	1.3524649	0.1141649
с4	CREBPATHWAY	BIOCARTA (27 genes)	MSigDB v2.5/C2	1.9587663	<0.0001
с4	AGEING_BRAIN_DN	Genes (122) downregulated in the ageing frontal cortex.	MSigDB v2.5/C2	1.883448	<0.0001
с4	AGED_MOUSE_HIPPOCAMPUS_ANY_DN	Genes (42) downregulated in hippocampus of 16 month aged mice compared to 3 month young controls	MSigDB v2.5/C2	1.7113705	0.0098039
с4	GPCRS_CLASS_C_METABOTROPIC_GLUTAMATE	Genes (14) associated with G-protein coupled receptors related to metabotropic glutamate receptors.	MSigDB v2.5/C2	1.627873	0.0401891
с4	CAHOY_NEURONAL	Genes (70) up and down-regulated in P7 and P16 neurons compared to astrocytes or oligodendrocytes. Cahoy et al. 2008	OPAM.v3	1.5009767	0.0466472
c4	has04360_AXON_GUIDANCE	Genes (128) involved in axon guidance.	MSigDB v2.5/C2	1.455076	0.0218579
с5	POMEROY_DESMOPLASTIC_VS_CLASSIC_MD_DN	Genes (41) expressed in classic medulloblastomas.	MSigDB v2.5/C2	1.900318	0.0022173
с5	PHOTO_DN.V1_UP	Genes upregulated (150) in retina of wt mice compared to retinae of Nr2e3 -/-, NrI -/-, and Crx -/- mice. Hsiau et al. 2007	OPAM.v3	1.5292192	0.0351438
с5	CRX_DN.V1_UP	Genes (150) upregulated in retinae of wt mice compared to retinae of Crx -/- mice. Hsiau et al. 2007	OPAM.v3	1.3321834	0.1
с5	NRL_DN.V1_UP	Genes (150) upregulated in retinae of wt mice compared to retinae of Nrl -/- mice. Hsiau et al. 2007	OPAM.v3	1.1607616	0.2096774
с5	IGLESIAS_ESFMINUS_DN	Genes (17) that decrease in the absence of E2F1 and E2F2.	MSigDB v2.5/C2	1.7437446	0.0169492
с5	CREBPATHWAY	BIOCARTA (27 genes)	MSigDB v2.5/C2	1.6355608	0.0286344
с6	TGFBETA_LATE_UP	Genes (33) upregulated by TGF-beta treatment of skin fibroblasts only at 1-4 hrs (clusters 4-6)	MSigDB v2.5/C2	2.077431	0.0027701
c6	LEF1_UP.V1_UP	Genes (200) upregulated by Lef1. (GEO dataset GSE3229) Medici et al. 2005	OPAM.v3	2.0324185	<0.0001
c6	BCAT_UP.V1_UP	Genes (200) upregulated by expression of mutant beta-catenin (S37A) in 293T cells.(GEO dataset GDS748) Chamorro et al. 2007	OPAM.v3	2.031653	<0.0001
c6	ST_WNT_BETA_CATENIN_PATHWAY	Genes (34) associated with Wnt/Beta-catenin signaling.	MSigDB v2.5/C2	1.7606045	<0.0001
c6	EMT_UP	Genes (62) upregulated during TGF-beta induced epithelial to mesenchymal transition of Eph4 cells	MSigDB v2.5/C2	1.75	0.019
c6	JECHLINGER_EMT_UP *NES = normalized enrichment score: nom P-value = nomina	Genes (57) upregulated for epithelial plasticity in tumor progression	MSigDB v2.5/C2	1.71	0.027

JECHLINGER_EMT_UP

Genes (57) upregulated for epithelial plasticity in tumor progression

*NES = normalized enrichment score; nom P-value = nominal P-value; for full details of each gene set, please refer to www.broadinstitute.org/gsea/msigdb/index.isp;

Pair-wise GSEA of NMF c1 versus c5

Enriched	l in c1	versus	c5
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Gene set	NES*	nom P-val*
MYC_TARGETS	2.089566	0
BRCA_BRCA1_POS	2.071055	0
RIBOSOMAL_PROTEINS	2.030252	0
AGUIRRE_PANCREAS_CHR8	1.96373	0.001953
MENSSEN_MYC_UP	1.955444	0
TRANSLATION_FACTORS	1.933928	0.001927
ZELLER_MYC_UP	1.909006	0
LEE_MYC_UP	1.908047	0
POMEROY_MD_TREATMENT_GOOD_VS_POOR_DN	1.904966	0
MYC_ONCOGENIC_SIGNATURE	1.855839	0.003781

Enriched in c5 versus c1

Gene set	NES	nom P-val
CREBPATHWAY	-2.00536	0
ERK5PATHWAY	-1.87296	0
BADPATHWAY	-1.86171	0.002016
PPARGPATHWAY	-1.80103	0.003984
BRCA2_BRCA1_DN	-1.77599	0.006452
GATA3PATHWAY	-1.69993	0.005952
CORTEX_ENRICHMENT_EARLY_UP	-1.65546	0.020243
YU_CMYC_DN	-1.62335	0.032854
MITOCHONDRIAL_FATTY_ACID_BETAOXIDATION	-1.61145	0.018947
POMEROY_DESMOPLASIC_VS_CLASSIC_MD_DN	-1.52065	0.063241

^{*}NES = normalized enrichment score; nom P-value = nominal P-value; for full details of each gene set, please refer to www.broadinstitute.org/gsea/msigdb/index.jsp;

Pair-wise GSEA of NMF c2 versus c4

Enriched in c2 versus c4		
Gene set	NES*	nom P-val*
SCHUMACHER_MYC_DN	1.7234862	0.007952286
IL22BPPATHWAY	1.6883659	0.011881189
IL10PATHWAY	1.6877216	0.0113852
TNFALPHA_ADIP_UP	1.6708775	0.003960396
ST_INTERLEUKIN_13_PATHWAY	1.6621488	0.009746589
ST_IL_13_PATHWAY	1.6621488	0.009746589
IL6_SCAR_FIBRO_DN	1.6235157	0.022044089
ST_INTERFERON_GAMMA_PATHWAY	1.6108645	0.035785288
HINATA_NFKB_IMMU_INF	1.5191829	0.042145595

Enriched in c4 versus c2

IL4PATHWAY

Gene set	NES	nom P-val
BADPATHWAY	-1.8262955	<0.0001
AGUIRRE_PANCREAS_CHR7	-1.810225	0.012269938
DSRNA_DN	-1.7628983	0.002028398
PENG_RAPAMYCIN_DN	-1.7483155	0.005847953
SCHUMACHER_MYC_UP	-1.7414796	0.009881423
CORTEX_ENRICHMENT_EARLY_UP	-1.7160639	0.011673152
O6BG_RESIST_MEDULLOBLASTOMA_DN	-1.7124412	0.001930502
CREB_BRAIN_2WKS_UP	-1.6516688	0.014
AGUIRRE_PANCREAS_CHR18	-1.6227533	0.045009784
HIPPOCAMPUS_DEVELOPMENT_NEONATAL	-1.5581534	0.053892214

^{*}NES = normalized enrichment score; nom P-value = nominal P-value; for full details of each gene set, please refer to www.broadinstitute.org/gsea/msigdb/index.jsp;

1.5032254

0.051526718

Table S4

Average (avg) and median (med) number of copy number lesions per tumor

	avg	med
c1	11.72222	11.5
c2	4.352941	4
c3	4.275862	3
c4	8.35	9
c5	10.77778	10.5
c6	1	1

Table S5

NMF	Positional g	jene set ei	nriched in NMF	Positiona	l gene set	enriched in
subgroup	cluster (inferred copy number gain)		'rest' (inferred copy number loss)			
	Name	NES*	nom P-value	Name	NES*	nom P-value
c1	CHR8Q24 CHR8Q22 CHR1Q44 CHR8P12 CHR8Q21 CHR8Q11 CHR5Q11 CHR1Q42 CHR1Q41 CHR8P22	2.250693 1.8838278 1.8084368 1.7958734 1.7795274 1.7591428 1.7206597 1.7040539 1.6782655 1.673351	<0.0001 0.011210762 0.019027485 0.011013215 0.022573363 0.023529412 0.014117647 0.034883723 0.03773585 0.030162413	CHR16Q22 CHR4Q32 CHR16Q12 CHR4Q26 CHRXQ22 CHR16Q23 CHR16Q24 CHR15Q23 CHR15Q26 CHR16Q13	-1.8994529 -1.8823338 -1.8816221 -1.8400798 -1.7713392 -1.7443051 -1.733623 -1.7335428 -1.7154063 -1.6919621	<0.0001 0.003565062 0.001788909 0.001828154 0.012681159 0.02131783 0.017921148 0.01559792 0.012068966 0.017667845
c2	CHR17Q11 CHR17Q23 CHR17Q21 CHR17G12 CHR6Q23 CHR16Q12 CHR17G25 CHR4Q11 CHR17Q22 CHRXQ27	2.2727506 1.9115108 1.8920196 1.7936867 1.6651441 1.6614091 1.6593256 1.621779 1.616684 1.5914041	<0.0001 0.006342495 0.004464286 0.009456265 0.017316017 0.04454343 0.03803132 0.043933053 0.02832244 0.05543237	CHR2Q33 CHR13Q31 CHR2P15 CHR2P16 CHR2P21 CHR8Q22 CHR13Q32 CHR19Q12 CHR6Q16 CHR1P12	-1.798832 -1.7907692 -1.7516466 -1.7333654 -1.7122612 -1.6705288 -1.6509 -1.6303024 -1.6221133 -1.6174711	0.001845019 0.001886793 0.003787879 0.011450382 0.007272727 0.03954802 0.02108963 0.017509727 0.020797227 0.01953125
c3	CHR3Q25 CHR2Q13 CHR13Q34 CHR6P CHR2P15 CHR11Q22 CHR6Q16 CHRXQ21 CHR13Q33 CHR2Q33	1.8654408 1.8499793 1.8450608 1.7768651 1.7106773 1.700544 1.6800518 1.652775 1.6301136 1.6180238	0.008247423 0.002141328 0.006550218 0.002105263 0.014285714 0.01814059 0.02173913 0.036170214 0.038854804 0.03640257	CHR17Q21 CHR17Q11 CHR17Q23 CHR9Q34 CHR9Q33 CHR17Q25 CHR17Q12 CHR17Q22 CHR7Q35 CHR5Q31	-2.0879242 -2.010558 -1.9643952 -1.8872199 -1.8626797 -1.8237622 -1.812055 -1.7396696 -1.7206488 -1.6284627	<0.0001 0.001949318 <0.0001 0.015594542 0.011406845 0.01509434 0.003610108 0.011342155 0.03460838 0.012939001
c4	CHR6Q22 CHR17Q22 CHR9Q34 CHR17Q21 CHR17Q25 CHR12Q24 CHR7Q36 CHR17Q12 CHR7P21	1.7428397 1.774105 1.7051464 1.6321447 1.6220071 1.6184632 1.6101096 1.5809617 1.5797045 1.5715357	0.016913319 0.015283843 0.038724374 0.03409091 0.06535948 0.045045044 0.06323185 0.028503563 0.06666667 0.029279279	CHR3Q25 CHR2Q33 CHR1P22 CHR4Q23 CHR5Q33 CHR8Q22 CHR8P11 CHR4Q24 CHR8P23 CHR3P13	-1.8193414 -1.788349 -1.7239883 -1.7061654 -1.6863109 -1.6586181 -1.5795851 -1.5779066 -1.5572784 -1.5539203	0.00754717 0.009107468 0.010948905 0.011363637 0.013833992 0.02578269 0.032478634 0.036900368 0.05204461 0.038674034
с5	CHR14Q32 CHR14Q24 CHR14Q11 CHR14Q31 CHR14Q13 CHR2Q24 CHR2Q34 CHR14Q22 CHR7Q35 CHR1P21	2.0876608 1.9171987 1.775132 1.7649634 1.7562042 1.6065754 1.5862199 1.574708 1.5559679 1.5431106	0.002544529 0.004545454 0.013921114 0.012077294 0.014989293 0.022792023 0.038043477 0.058252428 0.058536585 0.049222797	CHRXP22 CHR8P12 CHR11P13 CHR10Q26 CHR8P21 CHR3P26 CHR10Q25 CHR8Q12 CHR4Q22 CHR10Q23	-1.9556537 -1.9321878 -1.8926054 -1.8618424 -1.8327014 -1.8028281 -1.7746584 -1.7634267 -1.7520354 -1.7463275	0.001626016 0.001703578 0.005172414 0.01598579 <0.0001 <0.0001 0.014336918 <0.0001 0.010471204 0.024911031
c6	CHR3P13 CHR11P15 CHR2Q35 CHR3Q13 CHR9Q13 CHR9Q26 CHR7Q33 CHR2Q012 CHR9Q32 CHR20P12	1.8980178 1.7522583 1.7156441 1.6826246 1.6807413 1.675763 1.6698258 1.6457286 1.6413147 1.6410226	0.002237137 0.012406948 0.007853403 0.01843318 0.019662922 0.022727273 0.015228426 0.04197531 0.025700934 0.022332506	CHR6Q22 CHR6P21 CHR6Q15 CHR6Q25 CHR6P25 CHR6Q21 CHR6Q23 CHR6Q24 CHR6P12 CHR6Q27	-2.2793353 -2.2377422 -2.1716144 -2.1706293 -2.1333554 -2.1095939 -2.1007936 -2.0889313 -2.05087 -2.0433245	<0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001

^{*}NES = normalized enrichment score; nom P-value = nominal P-value

Table S6

Kool_Fattet	Positional of	gene set en	riched in NMF	Positiona	l aene set	enriched in
NMF	Cluster (inferred copy number gain)		'rest' (inferred copy number loss)			
subgroup	Name	NES*	nom P-value	Name	NES*	nom P-value
	CHR8Q24		0.009661836	CHRXQ22	-1.8025601	0.009191177
	CHR6Q24 CHR1Q44	1.9828601 1.7771809	0.008810572	CHR13Q33	-1.8025601	0.009191177
	CHR8Q13	1.7499149	0.020512821	CHRXQ11	-1.6046345	0.019097222
	CHR1Q42	1.7119223	0.01754386	CHR15Q12	-1.5706607	0.008787346
~1	CHR8Q22	1.6704329	0.04405286	CHR13Q22	-1.5528166	0.042662118
c 1	CHR1Q31	1.621693	0.02222223	CHR9P22	-1.5370772	0.05226481
	CHR1Q23	1.6081628	0.012345679	CHR3Q24	-1.5269535	0.053333335
	CHR13Q21	1.6054857	0.035897437	CHR12P	-1.5187151	0.0227704
	CHR19Q12	1.5940264	0.042	CHR4Q32	-1.4804995	0.06788991
	CHR1Q22	1.5616021	0.06772009	CHR4Q12	-1.4598036	0.09515571
	CHR4Q28	1.797571	0.004385965	CHR17P13	-1.9933875	0.001862197
	CHR17Q11	1.7896708	0.01590909	CHR2Q36	-1.9730184	<0.0001
	CHR17Q21	1.7661254	0.030162413	CHR7P15	-1.8575606	0.002928258
	CHR19P12	1.7564334	0.012847966	CHR2P15	-1.7039444	0.017475728
	CHR17Q12	1.7506748	0.013452915	CHR2P21	-1.6798258	0.017793594
c2	CHR13Q22	1.7433089	0.004576659	CHR7P12	-1.6624299	0.0237691
CZ	CHR6P23			CHR7Q34		
		1.7380869	0.006696429		-1.6124617	0.032667875
	CHR4Q11	1.6651118	0.040449437	CHR17P12	-1.5938015	0.041884817
	CHR17Q25	1.6650832	0.050458714	CHR4Q24	-1.577857	0.040139616
	CHR16Q21	1.6555468	0.033407573	CHR13Q31	-1.5622524	0.034146342
	CHR13Q33	2.1709802	<0.0001	CHR17Q12	-2.1061225	<0.0001
	CHR3Q25	1.8920418	0.004149378	CHR17Q22	-1.9359707	0.001838235
	CHR13Q34	1.7260286	0.019027485	CHR17Q11	-1.9034747	0.001782531
	CHR4Q22	1.6536411	0.008908686	CHR9Q34	-1.8854921	0.011764706
	CHRXQ21	1.6211768	0.042283297	CHR17Q25	-1.8831774	0.005524862
c3	CHR13Q31	1.598058	0.04077253	CHR17Q21	-1.8753396	0.001831502
00	CHR6Q14	1.5834956	0.03521127	CHR17Q23	-1.8173074	0.005357143
	CHR11Q22	1.5631658	0.05394191	CHR9Q33	-1.8119558	0.015009381
	CHR11P13	1.5556105	0.05102041	CHR5Q31	-1.7957602	0.001697793
	CHR3Q	1.5201668	0.03422053	CHR9Q32	-1.704091	0.035984848
	CHRSQ	1.3201000	0.03422033	CHR9Q32	-1.704091	0.055964646
	CHR7Q11	1.9260644	0.003929273	CHR8Q22	-1.914215	0.001883239
	CHR7Q36	1.8374237	0.006122449	CHR11Q13	-1.7689819	0.011627907
	CHR17Q24	1.7720046	0.023655914	CHR11Q14	-1.7012067	0.020952381
_	CHR7Q22	1.7590142	0.03448276	CHR11Q12	-1.692987	0.008179959
С4	CHR7P14	1.7144943	0.024948025	CHR8Q24	-1.6879599	0.017142856
• •	CHR7Q21	1.6942682	0.025586354	CHR11Q22	-1.6815585	0.026070764
	CHR7Q31	1.6694566	0.033333335	CHR4Q23	-1.6689975	0.018281536
	CHR6Q22	1.6611366	0.037199125	CHR13Q32	-1.660491	0.034798536
	CHR6Q15	1.6017267	0.06198347	CHR22Q13	-1.6480018	0.0251938
	CHR7Q34	1.5934799	0.05367793	CHR2P11	-1.604739	0.031835206
	CHR1P32	2.0414867	<0.0001	CHR10Q23	-1.949841	<0.0001
	CHR14Q13	1.8828543	0.004597701	CHR8Q12	-1.8347867	0.009107468
	CHR2Q34	1.8395232	0.004889976	CHR16Q21	-1.8036907	0.003676471
_	CHR11Q23	1.7919259	0.023622047	CHR16Q24	-1.788946	0.02247191
с5	CHR14Q32	1.7415793	0.01907357	CHR10Q25	-1.7084578	0.025773196
-	CHR1P21	1.7131884	0.016172506	CHR10Q24	-1.7044622	0.014897579
	CHR1P33	1.6790125	0.010443864	CHR16Q22	-1.7025235	0.039923955
	CHR14Q12	1.6774906	0.014619883	CHR16Q13	-1.6934845	0.039923935
	CHR14Q12 CHR1P34			CHR16Q13	-1.6701384	
		1.6760565	0.030303031			0.01244168
	CHR7Q35	1.6308197	0.032863848	CHRXQ13	-1.6107678	0.03327787
	CHR4Q23	2.0127268	<0.0001	CHR6Q22	-2.2793353	<0.0001
	CHR3Q13	1.9271897	0.002392344	CHR6P21	-2.2377422	<0.0001
	CHR2Q31	1.8882152	0.005025126	CHR6Q15	-2.1716144	<0.0001
	CHR2Q35	1.8676988	0.004555809	CHR6Q25	-2.1706293	<0.0001
	CHR16Q12	1.7909206	0.010869565	CHR6P25	-2.1333554	<0.0001
с6	CHR4Q24	1.7797402	0.00954654	CHR6Q21	-2.1095939	<0.0001
-	CHR3P11	1.7734421	0.004065041	CHR6Q23	-2.1007936	<0.0001
	CHR12Q	1.770975	0.010460251	CHR6Q24	-2.0889313	<0.0001
	CHR8Q22	1.7211294	0.02173913	CHR6P12	-2.05087	<0.0001
		1.1411434	0.02110010	OTTIVOT 12	2.00001	NO.0001
	CHR2P13	1.7018371	0.01330377	CHR6Q27	-2.0433245	<0.0001

^{*}NES = normalized enrichment score; nom P-value = nominal P-value