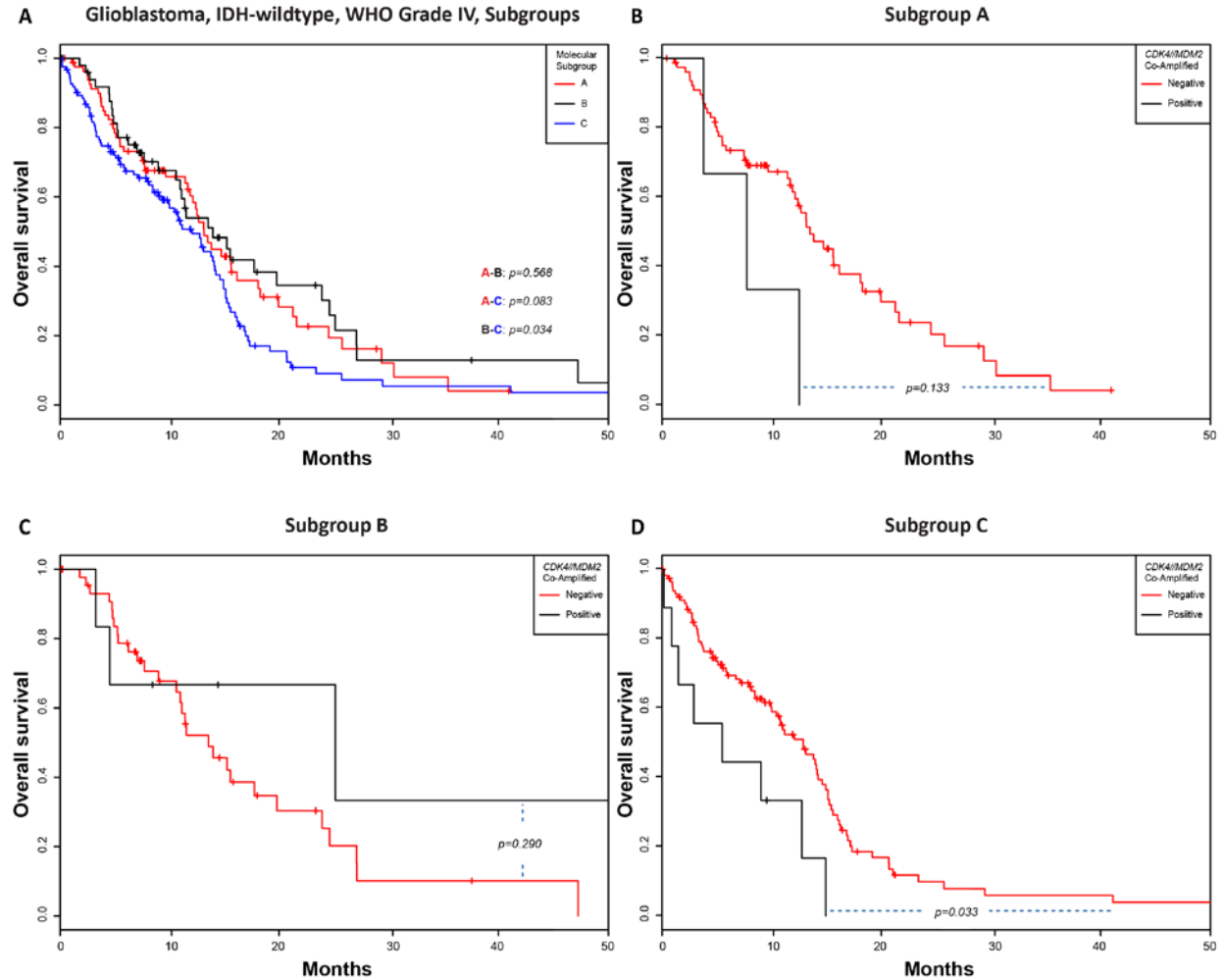


Supplementary Data

Supplementary Fig. 1 Glioblastoma (GBM), *IDH* wildtype, WHO grade IV subgroups have differential outcomes with respect to *CDK4/MDM2* co-amplification. (A) The WHO grade IV GBMs show a statistically significant survival difference between subgroup B and subgroup C ($p=0.034$), which on a copy number level, can be distinguished by chromosome 19 gain. (B) The presence of *CDK4/MDM2* co-amplification in subgroup A shows a trend for poor survival. (C) Subgroup B does not show statistically significant or trending survival differences with *CDK4/MDM2* co-amplification. (D) Subgroup C does show a significant ($p=0.033$) decrease in survival in the presence of *CDK4/MDM2* co-amplification. P values determined using Cox proportional hazard regression.



Supplementary Table 1

Cluster	Astrocytoma/GBM, <i>IDH</i> mutant	Astrocytoma/GBM, <i>IDH</i> wildtype	Oligodendroglioma, <i>IDH</i> mutant, 1p/19q codeleted
TCGA Identifier	TCGA-02-2483-01, TCGA-06-0128-01, TCGA-06-0129-01, TCGA-06-2570-01, TCGA-06-6389-01, TCGA-06-6701-01, TCGA-14-1456-01, TCGA-14-4157-01, TCGA-15-1444-01, TCGA-19-2629-01, TCGA-26-1442-01, TCGA-27-2521-01, TCGA-32-4208-01, TCGA-CS-4938-01, TCGA-CS-4942-01, TCGA-CS-4943-01, TCGA-CS-4944-01, TCGA-CS-5393-01, TCGA-CS-6290-01, TCGA-CS-6665-01, TCGA-CS-6666-01, TCGA-CS-6667-01, TCGA-DB-5270-01, TCGA-DB-5273-01, TCGA-DB-5275-01, TCGA-DB-5276-01, TCGA-DB-5277-01, TCGA-DB-5280-01, TCGA-DB-5281-01, TCGA-DB-A4X9-01, TCGA-DB-A4XB-01, TCGA-DB-A4XC-01, TCGA-DB-A4XD-01, TCGA-DB-A4XE-01, TCGA-DB-A4XF-01, TCGA-DB-A64S-01, TCGA-DB-A64X-01, TCGA-DB-A75L-01, TCGA-DB-A75M-01, TCGA-DB-A75O-01, TCGA-DH-5142-01, TCGA-DH-5143-01, TCGA-DH-A66B-01,	TCGA-02-0003-01, TCGA-02-0033-01, TCGA-02-0047-01, TCGA-02-0055-01, TCGA-02-2470-01, TCGA-02-2485-01, TCGA-02-2486-01, TCGA-06-0119-01, TCGA-06-0122-01, TCGA-06-0124-01, TCGA-06-0126-01, TCGA-06-0130-01, TCGA-06-0132-01, TCGA-06-0137-01, TCGA-06-0139-01, TCGA-06-0140-01, TCGA-06-0141-01, TCGA-06-0142-01, TCGA-06-0145-01, TCGA-06-0151-01, TCGA-06-0152-01, TCGA-06-0154-01, TCGA-06-0155-01, TCGA-06-0157-01, TCGA-06-0158-01, TCGA-06-0165-01, TCGA-06-0166-01, TCGA-06-0168-01, TCGA-06-0169-01, TCGA-06-0173-01, TCGA-06-0174-01, TCGA-06-0178-01, TCGA-06-0184-01, TCGA-06-0185-01, TCGA-06-0188-01, TCGA-06-0189-01, TCGA-06-0192-01, TCGA-06-0195-01, TCGA-06-0209-01, TCGA-06-0213-01, TCGA-06-0214-01, TCGA-06-0216-01, TCGA-06-0219-01,	TCGA-CS-5390-01, TCGA-CS-5394-01, TCGA-CS-5396-01, TCGA-CS-6668-01, TCGA-CS-6670-01, TCGA-DB-5274-01, TCGA-DB-5278-01, TCGA-DB-5279-01, TCGA-DB-A4XA-01, TCGA-DB-A4XG-01, TCGA-DB-A4XH-01, TCGA-DB-A64L-01, TCGA-DB-A64P-01, TCGA-DB-A64Q-01, TCGA-DB-A64R-01, TCGA-DB-A64U-01, TCGA-DB-A64V-01, TCGA-DB-A64W-01, TCGA-DB-A75K-01, TCGA-DH-5141-01, TCGA-DH-5144-01, TCGA-DH-A669-01, TCGA-DH-A66F-01, TCGA-DH-A7UR-01, TCGA-DH-A7US-01, TCGA-DU-5849-01, TCGA-DU-5870-01, TCGA-DU-5874-01, TCGA-DU-6393-01, TCGA-DU-6394-01, TCGA-DU-6397-01, TCGA-DU-6400-01, TCGA-DU-6410-01, TCGA-DU-7009-01, TCGA-DU-7018-01, TCGA-DU-7294-01, TCGA-DU-7300-01, TCGA-DU-7302-01, TCGA-DU-8164-01, TCGA-DU-8168-01, TCGA-DU-A6S2-01, TCGA-DU-A6S3-01, TCGA-DU-A6S6-01,

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TCGA-E1-A7YI-01, TCGA-E1-A7YK-01, TCGA-E1-A7YU-01, TCGA-E1-A7YV-01, TCGA-E1-A7YW-01, TCGA-E1-A7Z3-01, TCGA-E1-A7Z4-01, TCGA-E1-A7Z6-01, TCGA-F6-A8O4-01, TCGA-FG-5965-01, TCGA-FG-6689-01, TCGA-FG-6690-01, TCGA-FG-6691-01, TCGA-FG-7636-01, TCGA-FG-8182-01, TCGA-FG-8185-01, TCGA-FG-8188-01, TCGA-FG-8191-01, TCGA-FG-A4MT-01, TCGA-FG-A4MX-01, TCGA-FG-A4MY-01, TCGA-FG-A60J-01, TCGA-FG-A60L-01, TCGA-FG-A6J3-01, TCGA-FG-A70Y-01, TCGA-FG-A711-01, TCGA-FG-A87N-01, TCGA-FN-7833-01, TCGA-HT-7470-01, TCGA-HT-7472-01, TCGA-HT-7473-01, TCGA-HT-7474-01, TCGA-HT-7475-01, TCGA-HT-7476-01, TCGA-HT-7477-01, TCGA-HT-7478-01, TCGA-HT-7479-01, TCGA-HT-7482-01, TCGA-HT-7483-01, TCGA-HT-7485-01, TCGA-HT-7601-01, TCGA-HT-7602-01, TCGA-HT-7603-01, TCGA-HT-7604-01, TCGA-HT-7606-01, TCGA-HT-7609-01, TCGA-HT-7610-01, TCGA-HT-7611-01,	TCGA-06-6388-01, TCGA-06-6390-01, TCGA-06-6391-01, TCGA-06-6693-01, TCGA-06-6694-01, TCGA-06-6695-01, TCGA-06-6697-01, TCGA-06-6698-01, TCGA-06-6699-01, TCGA-06-6700-01, TCGA-08-0386-01, TCGA-12-0615-01, TCGA-12-0616-01, TCGA-12-0618-01, TCGA-12-0619-01, TCGA-12-0688-01, TCGA-12-0692-01, TCGA-12-0821-01, TCGA-12-3649-01, TCGA-12-3650-01, TCGA-12-3651-01, TCGA-12-3653-01, TCGA-12-5295-01, TCGA-12-5299-01, TCGA-12-5301-01, TCGA-14-0740-01, TCGA-14-0781-01, TCGA-14-0786-01, TCGA-14-0787-01, TCGA-14-0789-01, TCGA-14-0790-01, TCGA-14-0813-01, TCGA-14-0817-01, TCGA-14-0862-01, TCGA-14-0871-01, TCGA-14-1034-01, TCGA-14-1395-01, TCGA-14-1450-01, TCGA-14-1823-01, TCGA-14-1825-01, TCGA-14-1829-01, TCGA-14-2554-01, TCGA-15-0742-01, TCGA-16-0846-01, TCGA-16-0861-01, TCGA-16-1045-01, TCGA-19-1390-01, TCGA-19-2619-01,	TCGA-HT-8012-01, TCGA-HT-8105-01, TCGA-HT-8109-01, TCGA-HT-8113-01, TCGA-HT-A4DV-01, TCGA-HT-A5R9-01, TCGA-HT-A615-01, TCGA-HT-A619-01, TCGA-HT-A74K-01, TCGA-HT-A74L-01, TCGA-HW-7486-01, TCGA-HW-7487-01, TCGA-HW-7491-01, TCGA-HW-8322-01, TCGA-HW-A5KJ-01, TCGA-IK-8125-01, TCGA-KT-A74X-01, TCGA-P5-A5ET-01, TCGA-P5-A5EX-01, TCGA-P5-A5F0-01, TCGA-P5-A72Z-01, TCGA-P5-A730-01, TCGA-P5-A737-01, TCGA-P5-A77W-01, TCGA-P5-A77X-01, TCGA-P5-A781-01, TCGA-QH-A65R-01, TCGA-QH-A65V-01, TCGA-QH-A65X-01, TCGA-QH-A65Z-01, TCGA-QH-A6CU-01, TCGA-QH-A6CY-01, TCGA-QH-A6CZ-01, TCGA-QH-A6X4-01, TCGA-QH-A6X5-01, TCGA-QH-A6X8-01, TCGA-QH-A86X-01, TCGA-R8-A6MK-01, TCGA-R8-A6ML-01, TCGA-R8-A6MO-01, TCGA-R8-A73M-01, TCGA-RY-A83X-01, TCGA-RY-A83Y-01, TCGA-RY-A840-01, TCGA-RY-A847-01, TCGA-S9-A6TW-01, TCGA-S9-A6TX-01, TCGA-S9-A6TY-01,
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	TCGA-TQ-A7RR-01, TCGA-TQ-A7RV-01, TCGA-TQ-A7RW-01, TCGA-TQ-A8XE-01, TCGA-VM-A8C8-01, TCGA-VM-A8CF-01, TCGA-VM-A8CH-01, TCGA-VV-A86M-01, TCGA-WH-A86K-01, TCGA-WY-A858-01, TCGA-WY-A859-01, TCGA-WY-A85A-01, TCGA-WY-A85B-01, TCGA-WY-A85C-01, TCGA-WY-A85D-01, TCGA-WY-A85E-01	TCGA-76-4929-01, TCGA-76-4931-01, TCGA-76-4934-01, TCGA-76-4935-01, TCGA-76-6191-01, TCGA-76-6192-01, TCGA-76-6193-01, TCGA-76-6280-01, TCGA-76-6282-01, TCGA-76-6283-01, TCGA-76-6285-01, TCGA-76-6286-01, TCGA-76-6656-01, TCGA-76-6657-01, TCGA-76-6660-01, TCGA-76-6661-01, TCGA-76-6662-01, TCGA-76-6663-01, TCGA-76-6664-01, TCGA-81-5910-01, TCGA-81-5911-01, TCGA-87-5896-01, TCGA-CS-4941-01, TCGA-CS-5397-01, TCGA-CS-6188-01, TCGA-DB-A75P-01, TCGA-DU-5847-01, TCGA-DU-5854-01, TCGA-DU-6392-01, TCGA-DU-6402-01, TCGA-DU-6405-01, TCGA-DU-7006-01, TCGA-DU-7012-01, TCGA-DU-7013-01, TCGA-DU-7290-01, TCGA-DU-7292-01, TCGA-DU-8158-01, TCGA-DU-A5TY-01, TCGA-DU-A7TJ-01, TCGA-E1-A7YD-01, TCGA-E1-A7YJ-01, TCGA-E1-A7YL-01, TCGA-E1-A7YM-01, TCGA-E1-A7YN-01, TCGA-FG-5963-01, TCGA-FG-6688-01, TCGA-FG-A87Q-01, TCGA-HT-7680-01,	
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		TCGA-HT-7691-01, TCGA-HT-7854-01, TCGA-HT-7857-01, TCGA-HT-7860-01, TCGA-HT-8011-01, TCGA-HT-8015-01, TCGA-HT-8104-01, TCGA-HT-8110-01, TCGA-HT-8564-01, TCGA-HT-A4DS-01, TCGA-HT-A5RA-01, TCGA-HT-A5RC-01, TCGA-HT-A74H-01, TCGA-HW-A5KK-01, TCGA-KT-A7W1-01, TCGA-P5-A5EY-01, TCGA-QH-A6CS-01, TCGA-QH-A6CX-01, TCGA-QH-A6XC-01, TCGA-S9-A6U0-01, TCGA-S9-A6UA-01, TCGA-S9-A6WM-01, TCGA-S9-A7IX-01, TCGA-S9-A7R2-01, TCGA-S9-A89V-01, TCGA-TM-A7C3-01, TCGA-TM-A84B-01, TCGA-TM-A84C-01, TCGA-VM-A8C9-01, TCGA-VM-A8CD-01, TCGA-VW-A8FI-01	
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