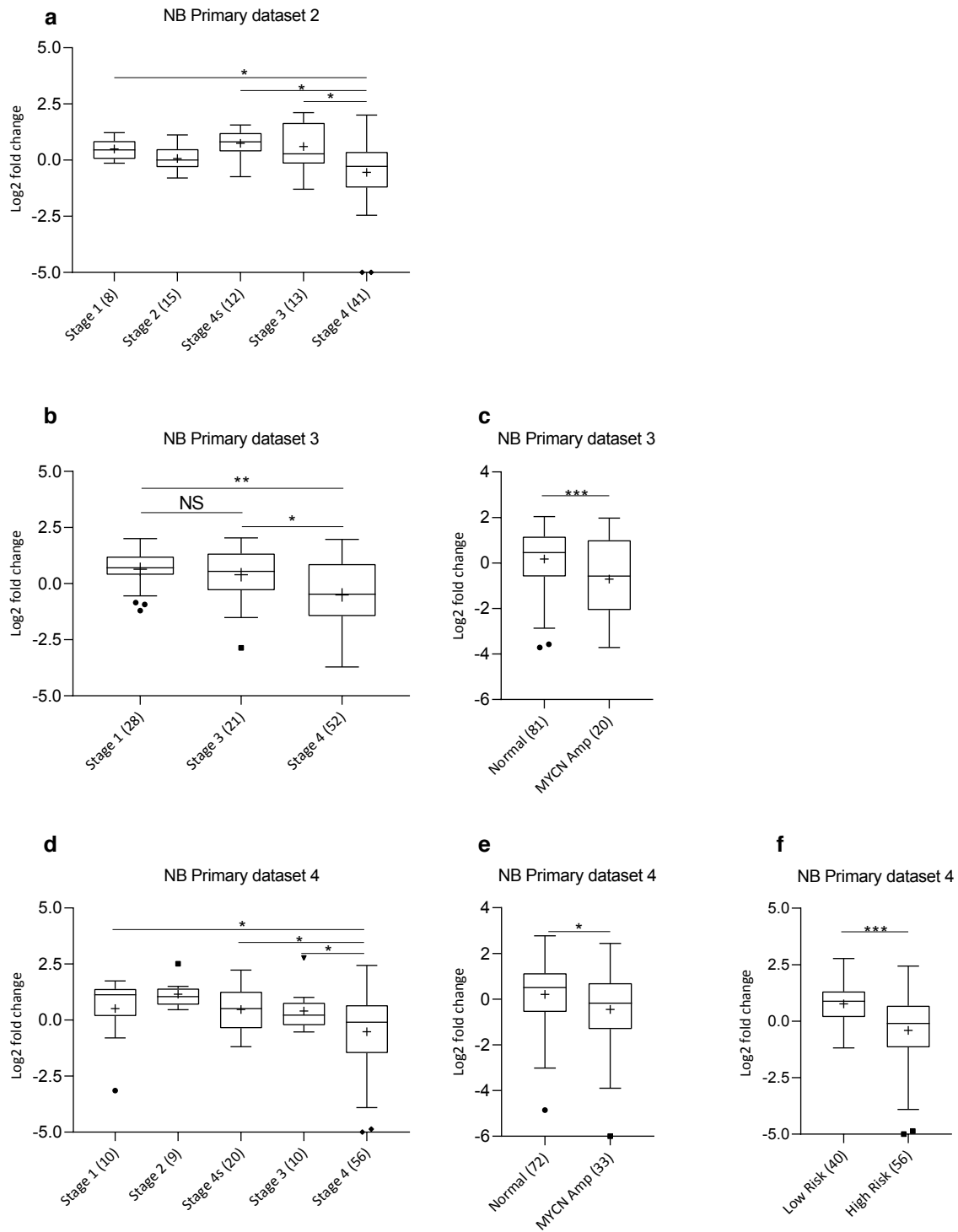
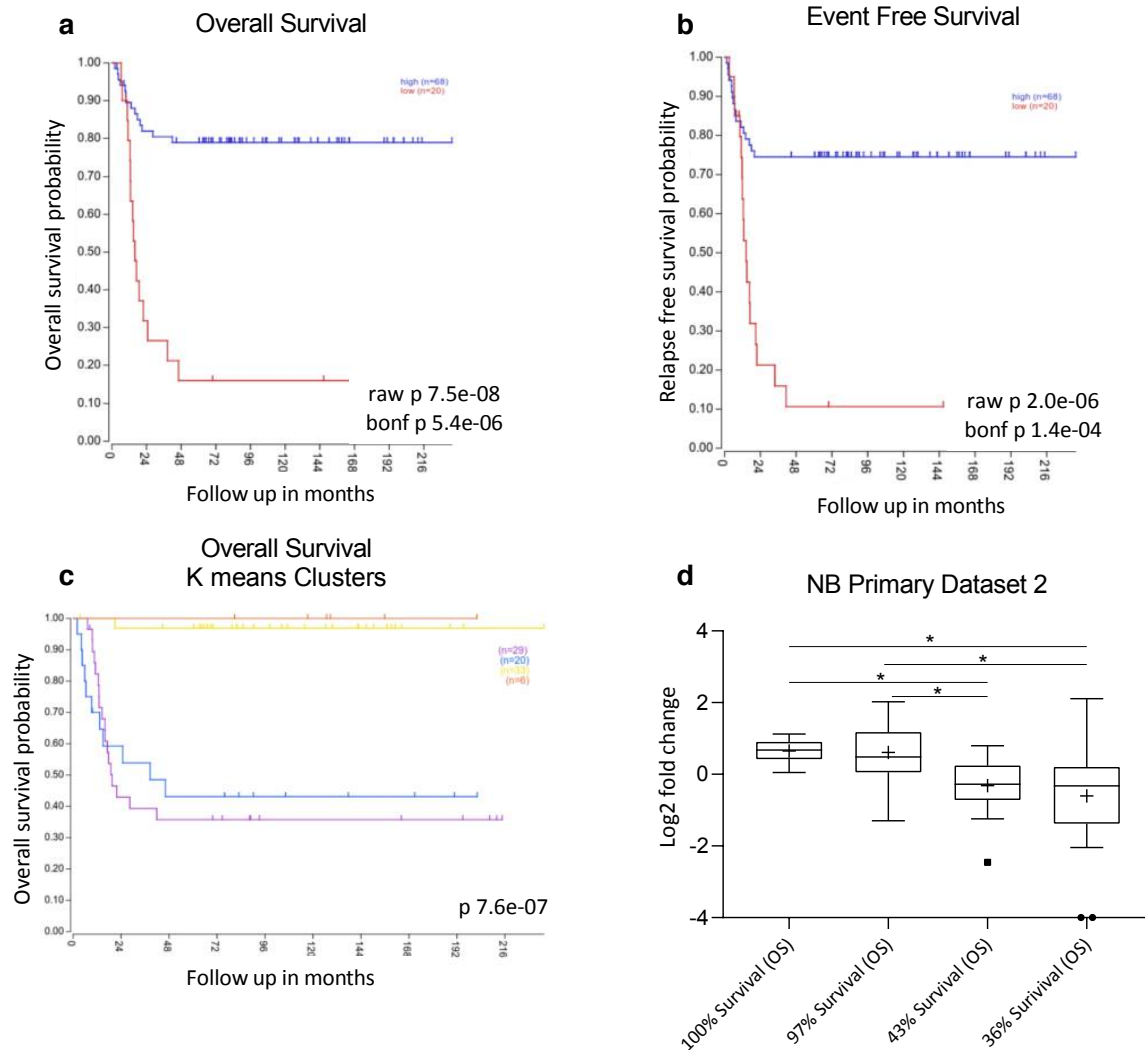




**Figure S1. *DLG2* expression in NB correlates with stage, MYCN amplification and Risk**

*DLG2* gene expression of primary neuroblastoma datasets 2 (*GSE16476*), 3 (*GSE3960*) and 4 (*GSE73517*) stratified by **a**), **b**) and **d**) INSS stage, **c**) and **e**) MYCN amplification and **f**) Risk category in primary NB. The expression data are presented as median centered log2 fold change and plotted as Tukeys box and whisker plots showing IQR, line at the median, + at the mean with whiskers  $\pm 1.5$ -fold of interquartile range. Data outside the whiskers are shown as outliers. \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$ .



**Figure S2. *DLG2* expression in NB correlates with survival**

*DLG2* gene expression of neuroblastoma dataset 2 (GSE16476), **a**), **b**) and **c**) are Kaplan-Meier plots showing in **a**) the overall survival probability, **b**) the relapse free survival and **c**) the overall survival of the k means 4 groups clustering. **d**) *DLG2* expression stratified by k means clustering Kaplan-Meier plots. The expression data are presented as median centered log2 fold change and plotted as Tukeys box and whisker plots showing IQR, line at the median, + at the mean with whiskers  $\pm 1.5$ -fold of interquartile range. Data outside the whiskers are shown as outliers. \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$ .

**Table S1.** Cell cycle, DNA replication, mismatch repair and fanconi anemia pathway genes negatively correlated to DLG2 expression, common to NB datasets 1(GSE49710), 2(GSE16476) and 3(GSE89413)

| Gene symbol                                  | Gene function                              | Cellular process           |
|----------------------------------------------|--------------------------------------------|----------------------------|
| <a href="#">ATR</a>                          | DNA strand break response                  | DNA repair                 |
| <a href="#">BLM</a>                          | DNA helicase                               | DNA replication            |
| <a href="#">BRCA1, BRCA2</a>                 | Double stand break recognition             | DNA repair                 |
| <a href="#">BUB1, BUB1B</a>                  | Mitotic checkpoint serine/threonine kinase | Mitotic checkpoint         |
| <a href="#">CCNA2</a>                        | Cyclin A2, G1/S to G2/M transition         | Cell cycle regulation      |
| <a href="#">CCNB1</a>                        | Cyclin B1, G2/M transition                 | Cell cycle regulation      |
| <a href="#">CDC6</a>                         | Cell division, G1/S phase                  | DNA replication            |
| <a href="#">CDC20</a>                        | Cell division, anaphase regulation         | Chromosome separation      |
| <a href="#">CDC23</a>                        | Cell Division, G2/M transition             | Cell cycle regulation      |
| <a href="#">CDC25B</a>                       | Cell division, Entry into mitosis          | Cell cycle regulation      |
| <a href="#">CDK4</a>                         | Cyclin dependent kinase, G1/S phase        | Cell cycle regulation      |
| <a href="#">DBF4</a>                         | E2F mediated regulation of DNA replication | DNA replication            |
| <a href="#">E2F1, E2F3</a>                   | Transcription factor                       | Cell cycle regulation      |
| <a href="#">ESPL1</a>                        | Sister chromatid cohesion and separation   | Chromosome separation      |
| <a href="#">EXO1</a>                         | Exonuclease 1                              | DNA repair                 |
| <a href="#">FANCG, FANCI</a>                 | Cell cycle checkpoint                      | DNA repair                 |
| <a href="#">FEN1</a>                         | NMEJ pathway                               | DNA repair                 |
| <a href="#">LIG1</a>                         | DNA ligase, DNA replication and repair     | DNA replication            |
| <a href="#">MCM2, MCM3, MCM5, MCM6, MCM7</a> | Initiation of genome replication           | DNA replication            |
| <a href="#">MSH6</a>                         | Mismatch recognition                       | DNA repair                 |
| <a href="#">PCNA</a>                         | DNA clamp                                  | DNA replication and repair |
| <a href="#">PRKDC</a>                        | DNA-dependent protein kinase               | DNA repair                 |
| <a href="#">POLA1, POLA2</a>                 | DNA polymerase alpha                       | DNA replication            |
| <a href="#">POLD2</a>                        | DNA polymerase delta                       | DNA replication            |
| <a href="#">POLE2</a>                        | DNA polymerase epsilon                     | DNA replication            |
| <a href="#">RAD51, RAD51C</a>                | Double strand break repair                 | DNA repair                 |
| <a href="#">REV3L</a>                        | DNA polymerase zeta                        | DNA replication            |
| <a href="#">SKP2</a>                         | S phase associated Protein                 | Cell cycle regulation      |
| <a href="#">SMC1A</a>                        | Sister chromatid cohesion and separation   | Chromosome separation      |
| <a href="#">RFC3, RFC4</a>                   | Replication factor, DNA elongation         | DNA replication            |
| <a href="#">TP53</a>                         | Tumor suppressor, DNA binding              | Cell cycle regulation      |
| <a href="#">YWHAH</a>                        | Signal Transduction                        | Transcription regulation   |