The over-expression of *E2F3* might serve as prognostic marker for neuroblastoma patients with stage 4S disease

Supplemental Material

Figure S1. Event Free Survival of Stage 4S Neuroblastoma patients in relation to the expression of *RB1* gene in four microarray databases; cut-off value based on the median of gene expression (red line: lower values; blue line: higher values).

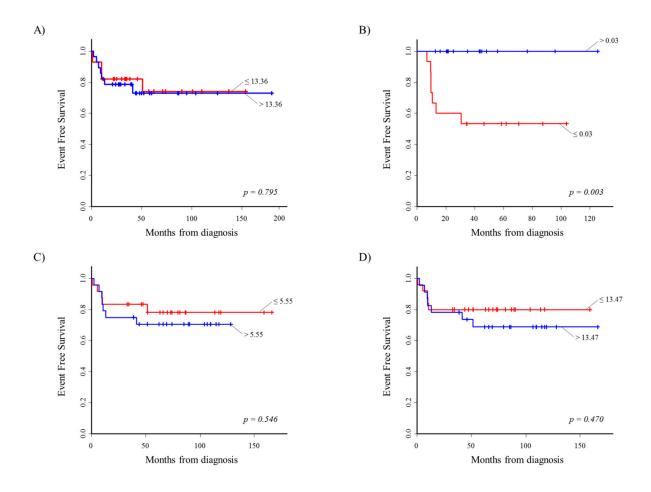


Figure S2. Event Free Survival of Stage 4S Neuroblastoma patients in relation to the expression of *RB1* gene in four microarray databases; cut-off value based on the first tertile of gene expression (red line: lower values; blue line: higher values).

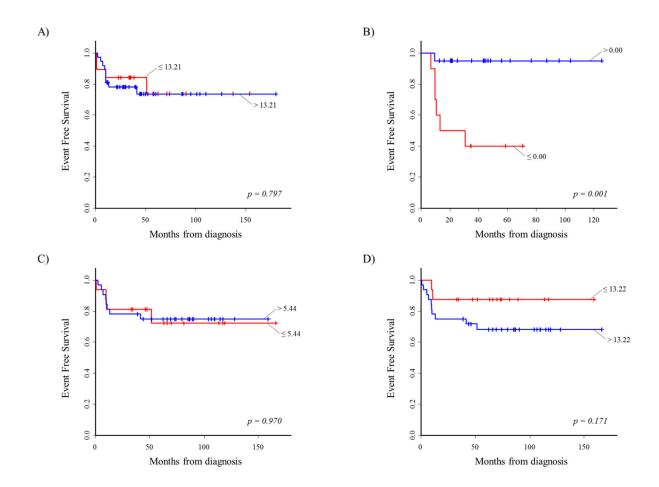


Figure S3. Event Free Survival of Stage 4S Neuroblastoma patients in relation to the expression of *RB1* gene in four microarray databases; cut-off value based on the last tertile of gene expression (red line: lower values; blue line: higher values).

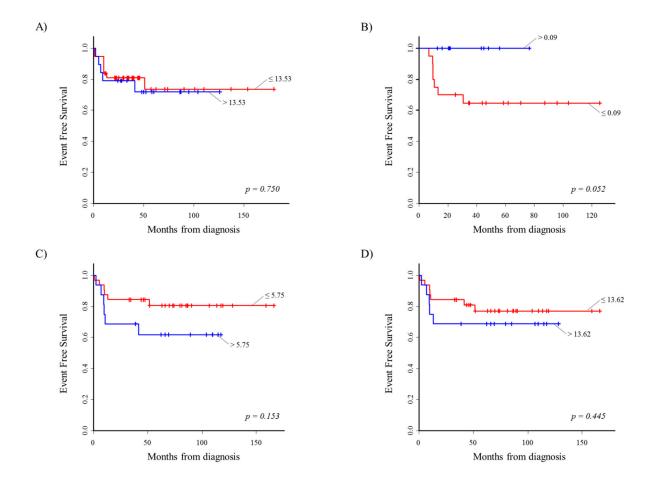


Figure S4. Forest plot of hazard ratios for the association between Event Free Survival of patients with Stage 4S Neuroblastoma and *RB1* gene expression at the following selected cut-offs: A) first tertile; B) median; C) last tertile.

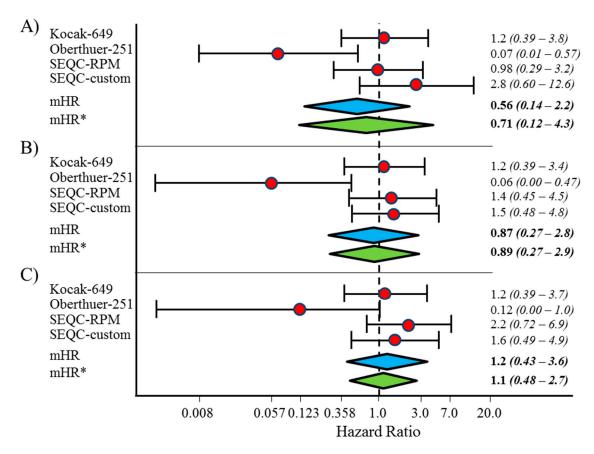


Figure S5. Event Free Survival of Stage 4S Neuroblastoma patients in relation to the expression of TERT gene in four microarray databases; cut-off value based on the median of gene expression (red line: lower values; blue line: higher values).

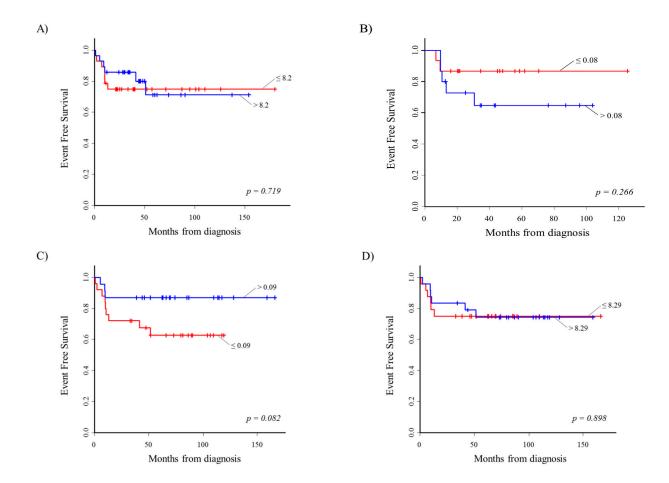


Figure S6. Event Free Survival of Stage 4S Neuroblastoma patients in relation to the expression of *TERT* gene in four microarray databases; cut-off value based on the first tertile of gene expression (red line: lower values; blue line: higher values).

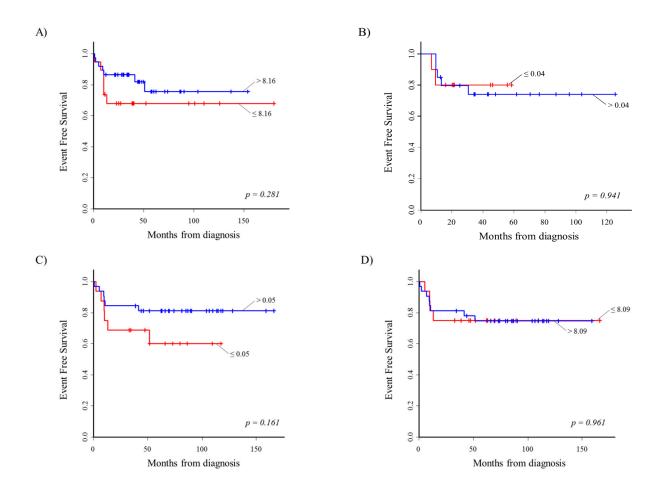


Figure S7. Event Free Survival of Stage 4S Neuroblastoma patients in relation to the expression of *TERT* gene in four microarray databases; cut-off value based on the last tertile of gene expression (red line: lower values; blue line: higher values).

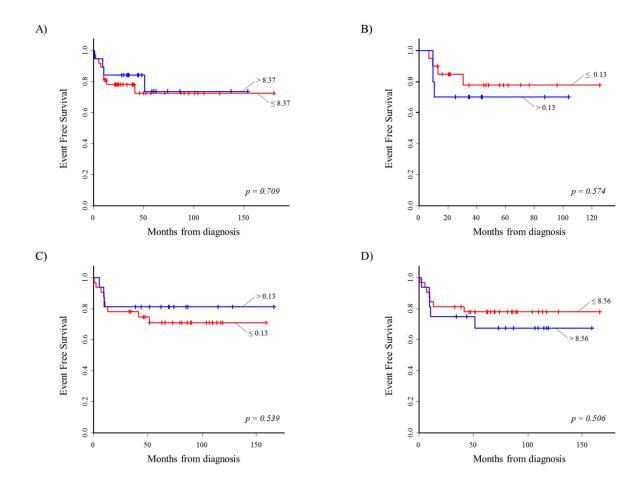


Figure S8. Forest plot of hazard ratios for the association between Event Free Survival of patients with Stage 4S Neuroblastoma and *TERT* gene expression at the following selected cut-offs: A) first tertile; B) median; C) last tertile.

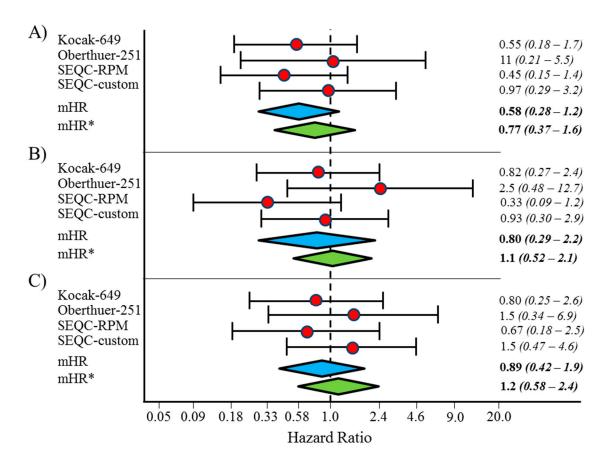


Figure S9. Event Free Survival of Stage 4S Neuroblastoma patients in relation to the expression of *E2F1* gene in four microarray databases; cut-off value based on the median of gene expression (red line: lower values; blue line: higher values).

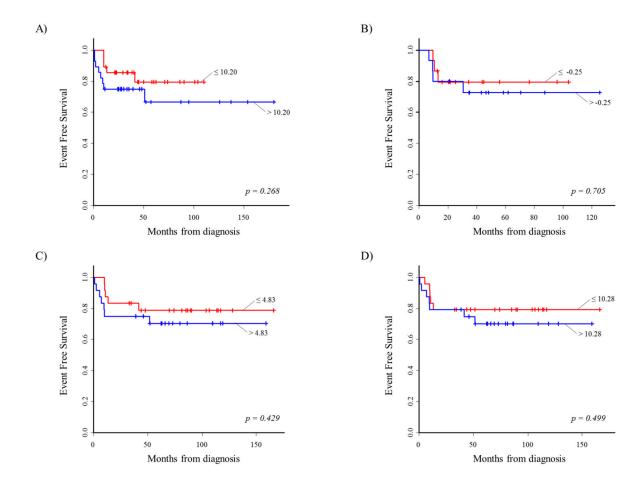


Figure S10. Event Free Survival of Stage 4s Neuroblastoma patients in relation to the expression of *E2F1* gene in four microarray databases; cut-off value based on the first tertile of gene expression (red line: lower values; blue line: higher values).

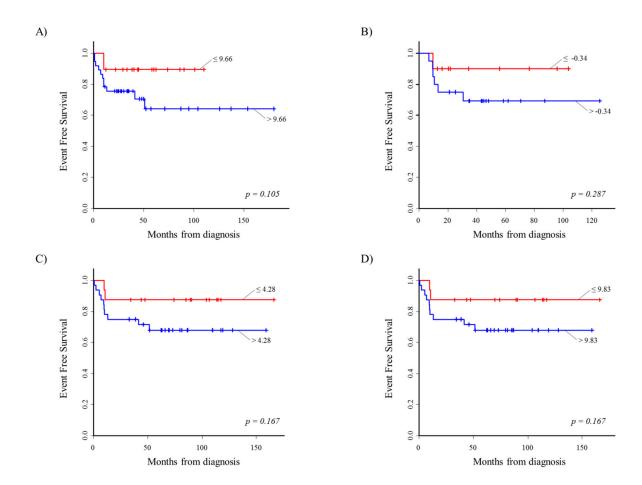


Figure S11. Event Free Survival of Stage 4S Neuroblastoma patients in relation to the expression of *E2F*1 gene in four microarray databases; cut-off value based on the last tertile of gene expression (red line: lower values; blue line: higher values).

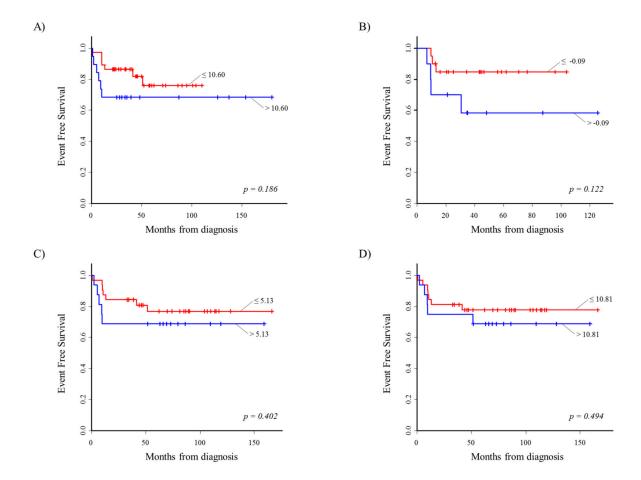


Figure S12. Forest plot of hazard ratios for the association between Event Free Survival of patients with Stage 4S Neuroblastoma and *E2F1* gene expression at the following selected cut-offs: A) first tertile; B) median; C) last tertile.

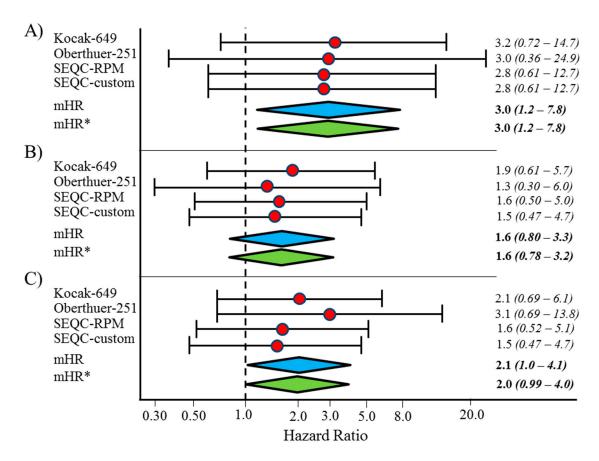


Figure S13. Event Free Survival of Stage 4S Neuroblastoma patients in relation to the expression of *E2F2* gene in four microarray databases; cut-off value based on the median of gene expression (red line: lower values; blue line: higher values).

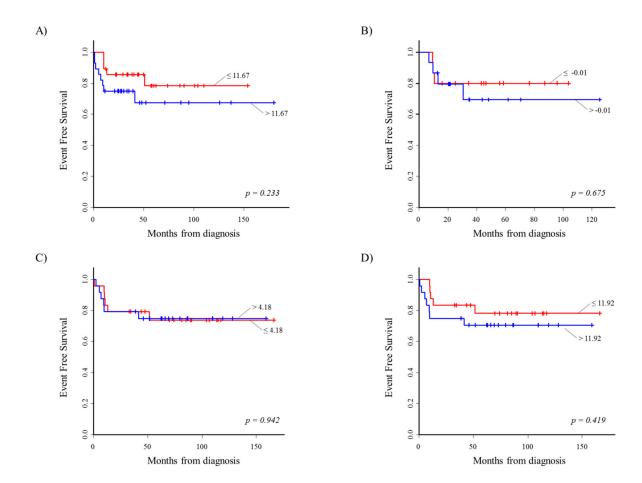


Figure S14. Event Free Survival of Stage 4S Neuroblastoma patients in relation to the expression of E2F2 gene in four microarray databases; cut-off value based on the first tertile of gene expression (red line: lower values; blue line: higher values).

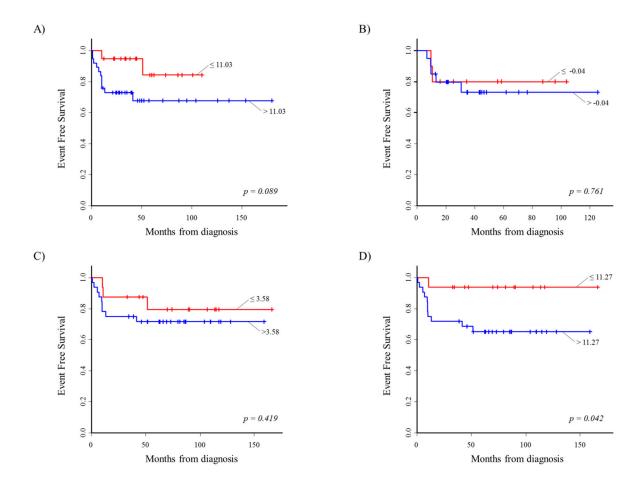


Figure S15. Event Free Survival of Stage 4S Neuroblastoma patients in relation to the expression of *E2F2* gene in four microarray databases; cut-off value based on the last tertile of gene expression (red line: lower values; blue line: higher values).

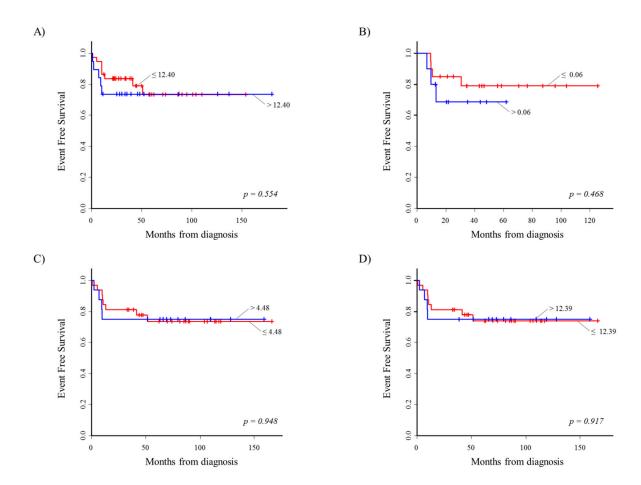


Figure S16. Forest plot of hazard ratios for the association between Event Free Survival of patients with Stage 4S Neuroblastoma and *E2F2* gene expression at the following selected cut-offs: A) first tertile; B) median; C) last tertile.

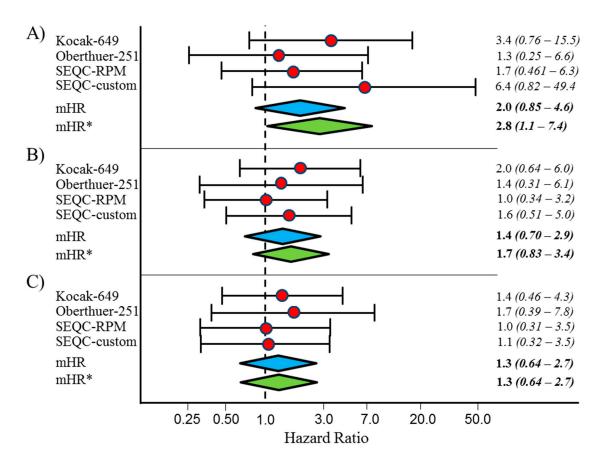


Figure S17. Event Free Survival of Stage 4S Neuroblastoma patients in relation to the expression of *E2F3* gene in four microarray databases; cut-off value based on the median of gene expression (red line: lower values; blue line: higher values).

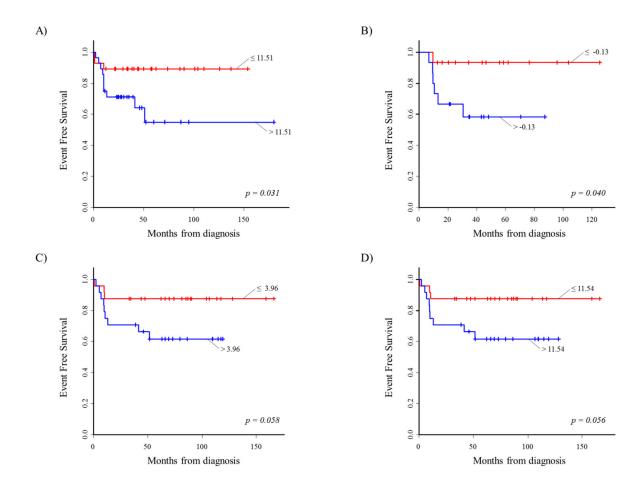


Figure S18. Event Free Survival of Stage 4S Neuroblastoma patients in relation to the expression of *E2F3* gene in four microarray databases; cut-off value based on the first tertile of gene expression (red line: lower values; blue line: higher values).

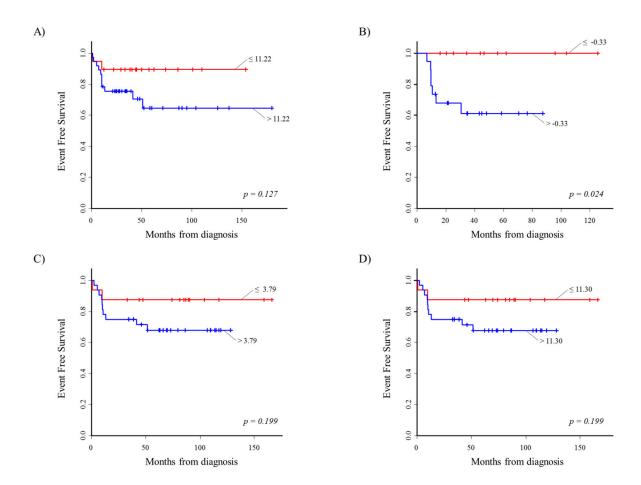


Figure S19. Event Free Survival of Stage 4S Neuroblastoma patients in relation to the expression of *E2F3* gene in four microarray databases; cut-off value based on the last tertile of gene expression (red line: lower values; blue line: higher values).

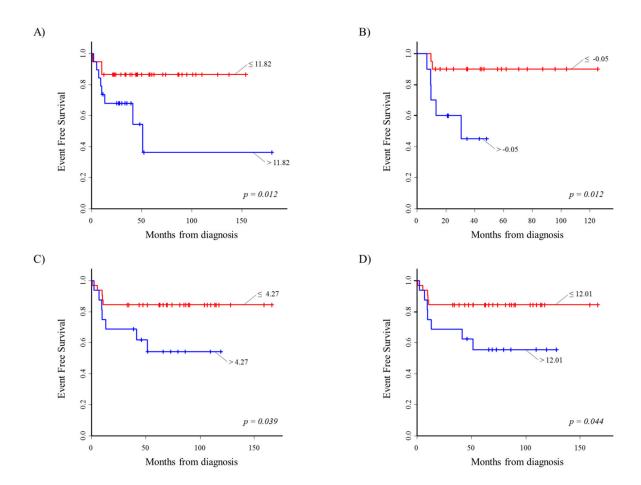


Figure S20. Forest plot of hazard ratios for the association between Event Free Survival of patients with Stage 4S Neuroblastoma and *E2F3* gene expression at the following selected cut-offs: A) first tertile; B) median; C) last tertile.

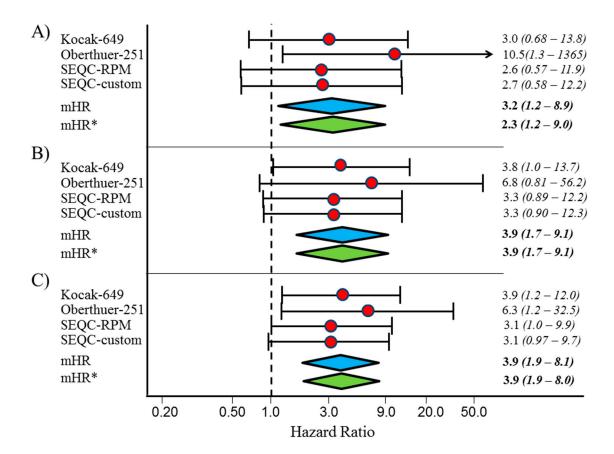


Table S1. Analysis of E2F3 protein in 38 primary neuroblastoma tissue sections.

| Patient | Stage | Protocol | MYCN amplified | Relapse | Relapse site | E2F3+cells (%) |
|---------|------------|----------|----------------|------------|------------------------|----------------|
| NB1 | 4S | Infant | N | N | - | 3 |
| NB2 | 4S | Infant | N | N | - | 5 |
| NB3 | 4S | Infant | N | N | - | 6 |
| NB4 | 4S | Infant | N | N | - | 18 |
| NB5 | 4S | Infant | N | N | - | 4 |
| NB6 | 4S | Infant | N | Y* | bone marrow, liver | 90 |
| NB7 | 4S | Infant | N | Y * | lung | 80 |
| NB8 | 4S | Infant | N | N | - | 16 |
| NB9 | 4S | Infant | N | N | - | 2 |
| NB10 | 4S | Infant | N | N | - | 10 |
| NB11 | 4S | Infant | N | N | - | 8 |
| NB12 | 4S | Infant | N | Y | metastatic | 87 |
| NB13 | 4S | Infant | N | Y | distant and local | 90 |
| NB14 | 4S | Infant | N | N | | 5 |
| NB15 | 4S | Infant | N | N | | 4 |
| NB16 | 4S | Infant | N | N | | 11 |
| NB17 | 4S | Infant | N | N | | 3 |
| NB18 | 4S | Infant | N | N | | 6 |
| NB19 | 4S | Infant | N | N | | 14 |
| NB20 | 4S | Infant | N | N | | 7 |
| NB21 | 4S | Infant | N | N | | 5 |
| NB22 | 4S | Infant | N | N | | 4 |
| NB23 | 4S | Infant | N | N | | 9 |
| NB24 | 4S | Infant | N | Y | metastatic | 90 |
| NB25 | 4S | Infant | N | Y | local | 80 |
| NB26 | 4S | Infant | N | Y | metastatic | 90 |
| NB27 | 4S | Infant | N | N | | 12 |
| NB28 | 4S | Infant | N | N | | 4 |
| NB29 | 4S | Infant | N | N | | 7 |
| NB30 | 4S | Infant | N | N | | 3 |
| NB31 | 4 S | Infant | N | N | | 8 |
| NB32 | 4S | Infant | N | Y | metastatic | 78 |
| NB33 | 4S | Infant | N | Y | distant and local | 90 |
| NB34 | 4S | Infant | N | Y* | central nervous system | 80 |
| NB35 | 4S | Infant | N | Y | metastatic | 80 |
| NB36 | 4S | Infant | N | Y | metastatic | 90 |
| NB37 | 4S | Infant | N | Y | distant and local | 90 |
| NB38 | 4S | Infant | N | Y* | bone marrow, bones | 90 |

Y= yes; N= not; * tumor progression to high risk stage 4