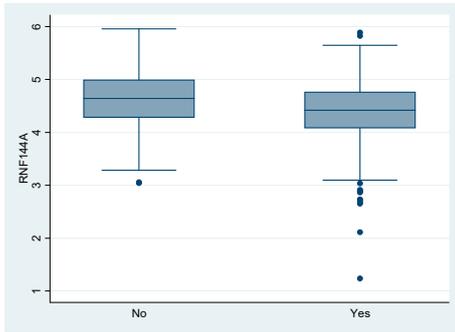
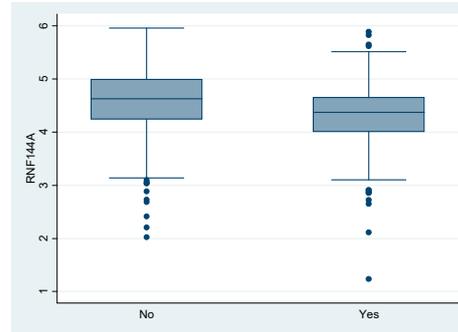


Supplementary Figures

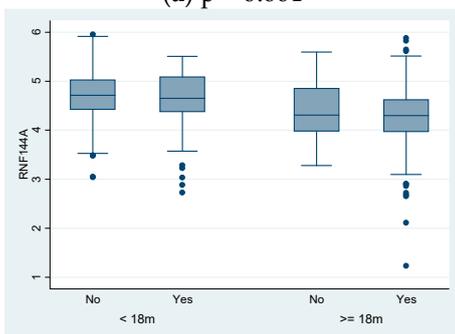
Supplementary Figure S1



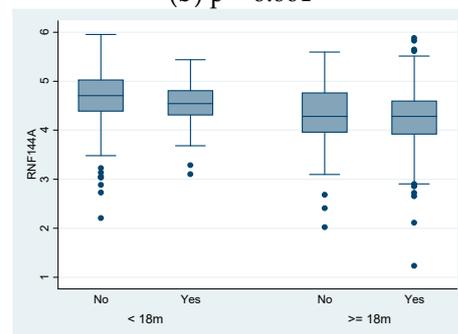
(a) $p < 0.001$



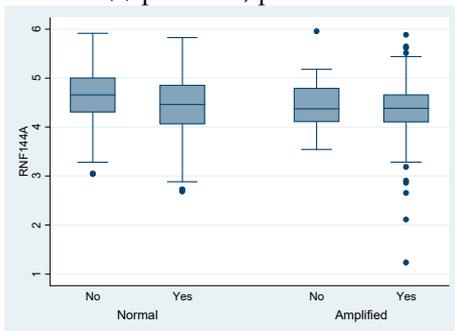
(b) $p < 0.001$



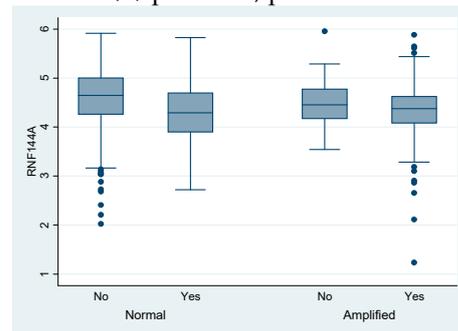
(c) $p = 0.348$; $p = 0.471$



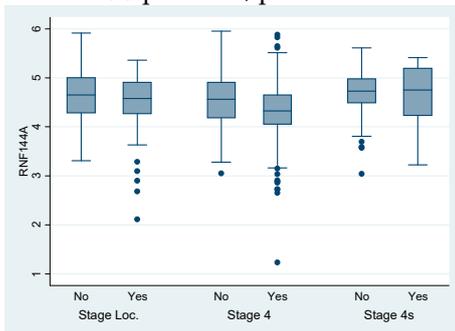
(d) $p = 0.083$; $p = 0.296$



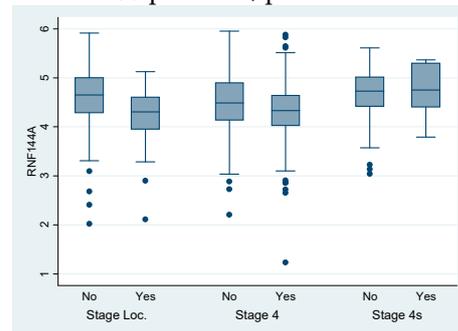
(e) $p < 0.001$; $p = 0.804$



(f) $p < 0.001$; $p = 0.188$



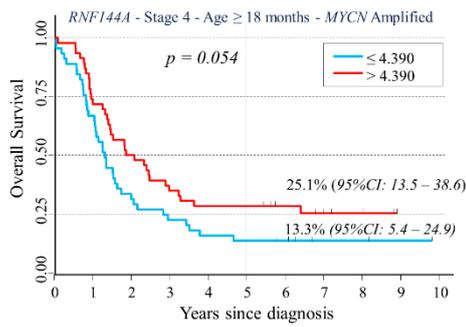
(g) $p = 0.282$; $p < 0.001$; $p = 0.864$



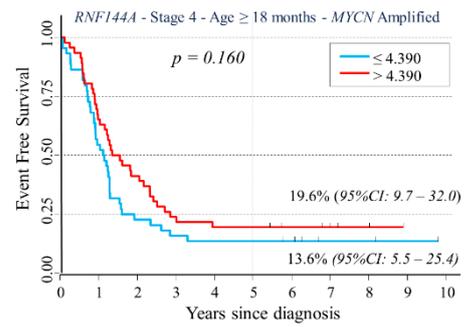
(h) $p < 0.001$; $p = 0.005$; $p = 0.862$

Association between *RNF144A* gene expression and the main patient characteristics at diagnosis and outcome evaluated on the entire cohort. (a) Number of events. (b) Number of deaths. (c) Number of events by age at diagnosis. (d) Number of deaths by age at diagnosis. (e) Number of events by *MYCN* status. (f) Number of deaths by *MYCN* status. (g) Number of events by stage at diagnosis. (h) Number of deaths by stage at diagnosis.

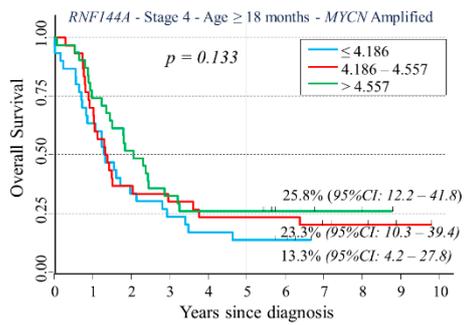
Supplementary Figure S2



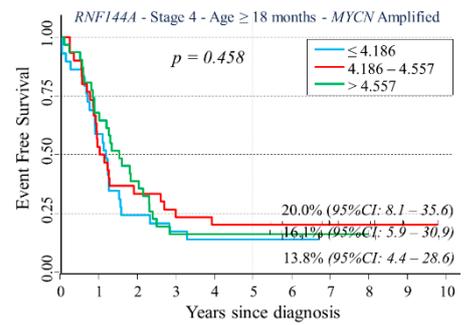
(A)



(B)



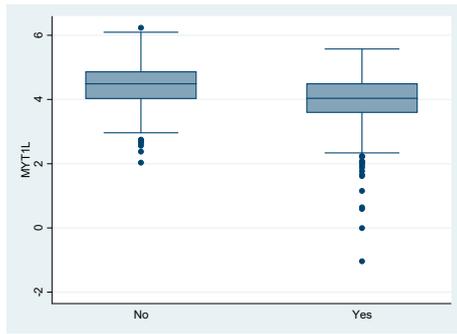
(C)



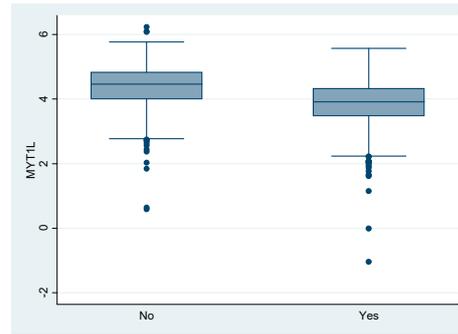
(D)

Survival of patients with age \geq 18 months, stage 4 disease and *MYCN* amplification at diagnosis in relation to *RNF144A* expression level. (A) Overall Survival, cut-off based on the median expression value. (B) Event Free Survival, cut-off based on the median expression value. (C) Overall Survival, cut-offs based on tertile expression values. (D) Event Free Survival, cut-offs based on tertile expression values. Five-year survival estimates are displayed.

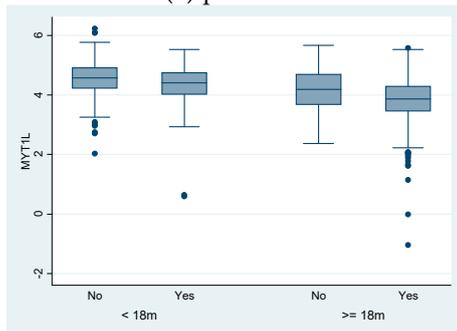
Supplementary Figure S3



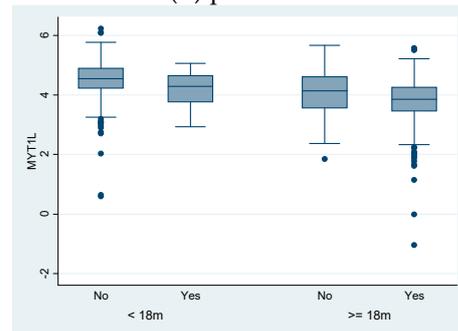
(a) $p < 0.001$



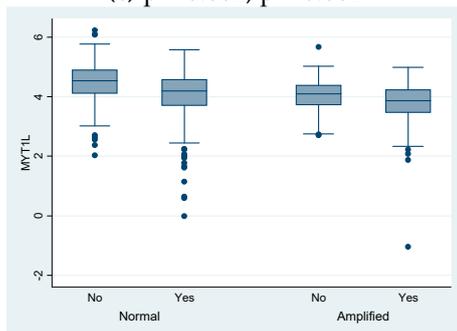
(b) $p < 0.001$



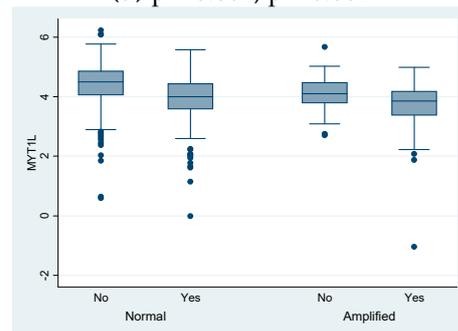
(c) $p = 0.002$; $p < 0.001$



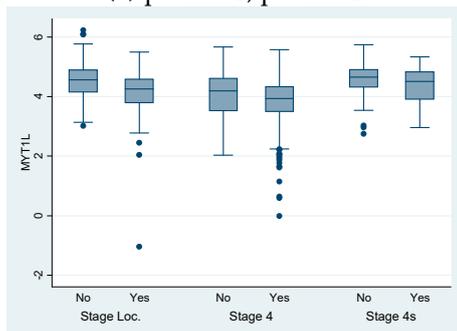
(d) $p = 0.001$; $p < 0.001$



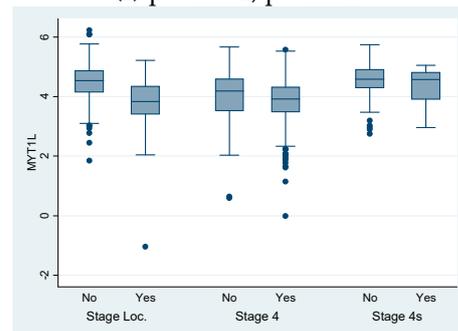
(e) $p < 0.001$; $p = 0.004$



(f) $p < 0.001$; $p = 0.007$



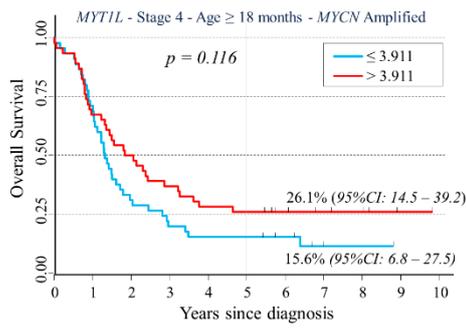
(g) $p < 0.001$; $p = 0.007$; $p = 0.251$



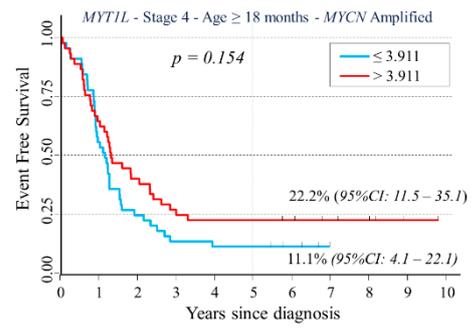
(h) $p < 0.001$; $p = 0.003$; $p = 0.431$

Association between *MYT1L* gene expression and the main patient characteristics at diagnosis and outcome evaluated on the entire cohort. (a) Number of events. (b) Number of deaths. (c) Number of events by age at diagnosis. (d) Number of deaths by age at diagnosis. (e) Number of events by *MYCN* status. (f) Number of deaths by *MYCN* status. (g) Number of events by stage at diagnosis. (h) Number of deaths by stage at diagnosis.

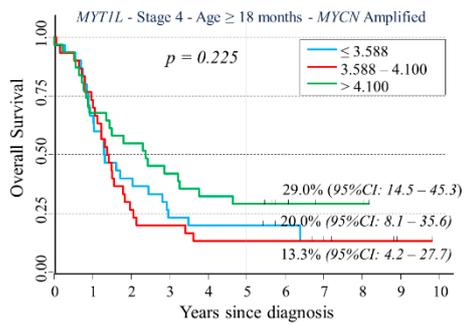
Supplementary Figure S4



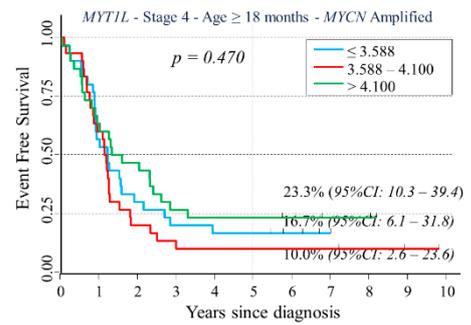
(A)



(B)



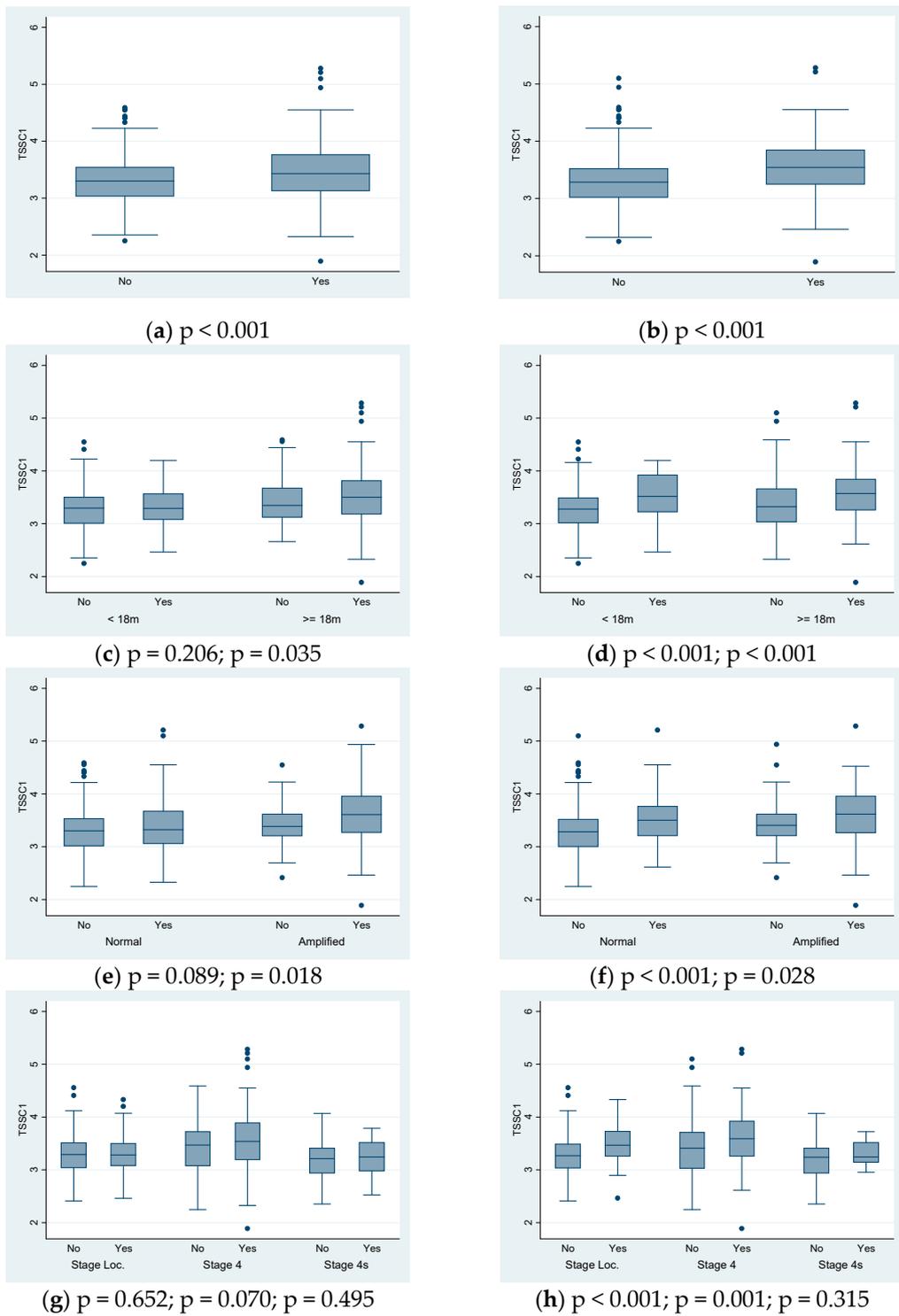
(C)



(D) $p = 0.470$

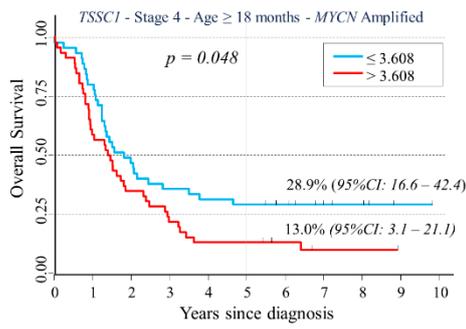
Survival of patients with age \geq 18 months, stage 4 disease and MYCN amplification at diagnosis in relation to MYT1L expression level. (A) Overall Survival, cut-off based on the median expression value. (B) Event Free Survival, cut-off based on the median expression value. (C) Overall Survival, cut-offs based on tertile expression values. (D) Event Free Survival, cut-offs based on tertile expression values. Five-year survival estimates are displayed.

Supplementary Figure S5

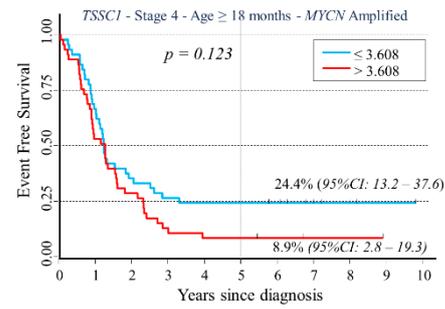


Association between *TSSC1* gene expression and the main patient characteristics at diagnosis and outcome evaluated on the entire cohort. **(a)** Number of events. **(b)** Number of deaths. **(c)** Number of events by age at diagnosis. **(d)** Number of deaths by age at diagnosis. **(e)** Number of events by *MYCN* status. **(f)** Number of deaths by *MYCN* status. **(g)** Number of events by stage at diagnosis. **(h)** Number of deaths by stage at diagnosis.

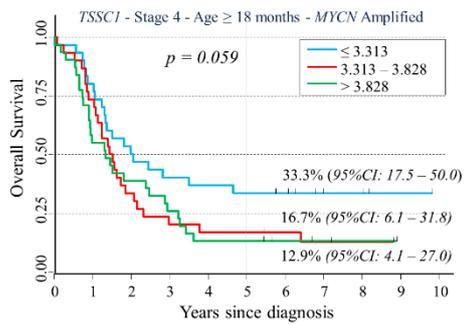
Supplementary Figure S6



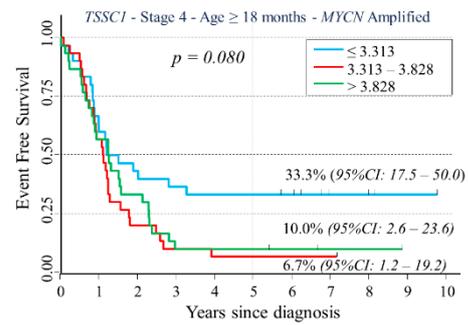
(A)



(B)



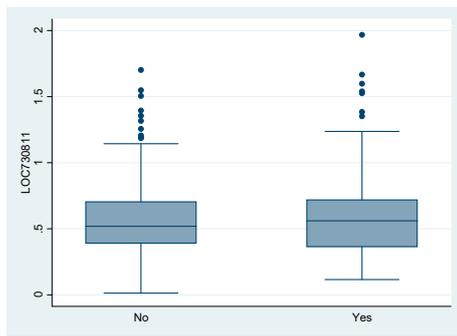
(C)



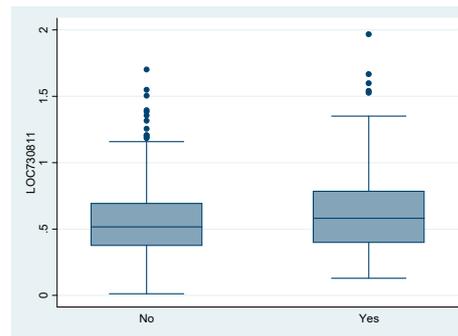
(D)

Survival of patients with age \geq 18 months, stage 4 disease and MYCN amplification at diagnosis in relation to TSSC1 expression level. (A) Overall Survival, cut-off based on the median expression value. (B) Event Free Survival, cut-off based on the median expression value. (C) Overall Survival, cut-offs based on tertile expression values. (D) Event Free Survival, cut-offs based on tertile expression values. Five-year survival estimates are displayed.

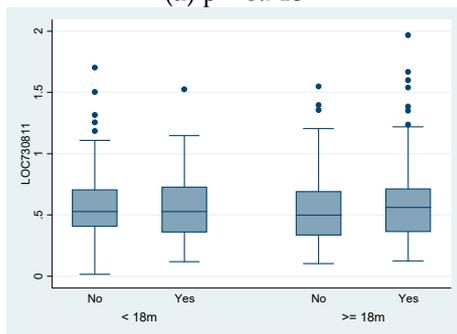
Supplementary Figure S7



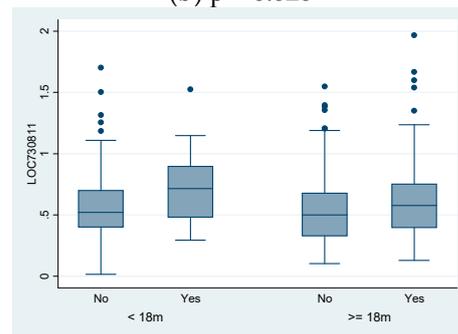
(a) $p = 0.715$



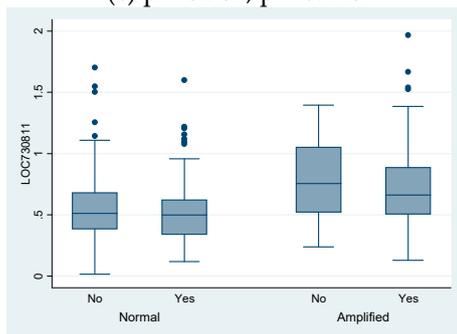
(b) $p = 0.020$



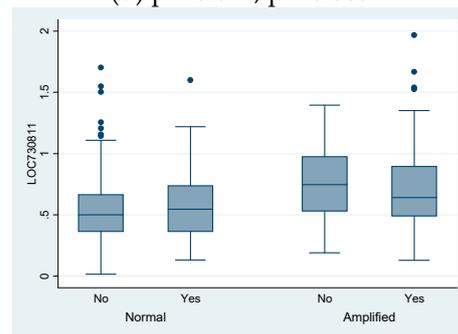
(c) $p = 0.969$; $p = 0.446$



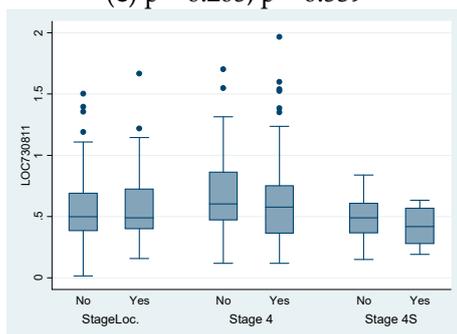
(d) $p = 0.017$; $p = 0.063$



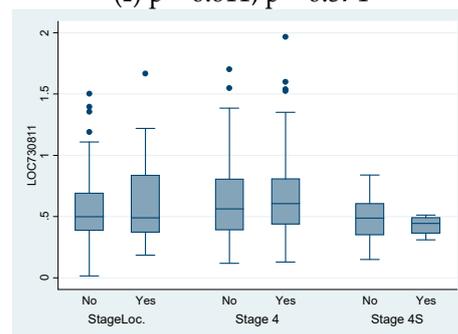
(e) $p = 0.205$; $p = 0.539$



(f) $p = 0.611$; $p = 0.574$



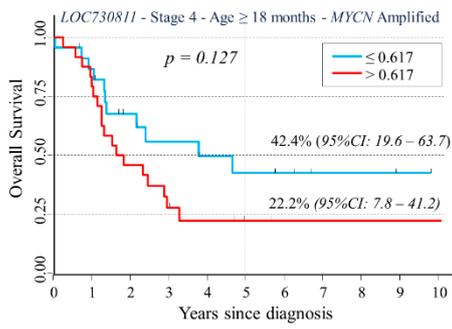
(g) $p = 0.920$; $p = 0.283$; $p = 0.211$



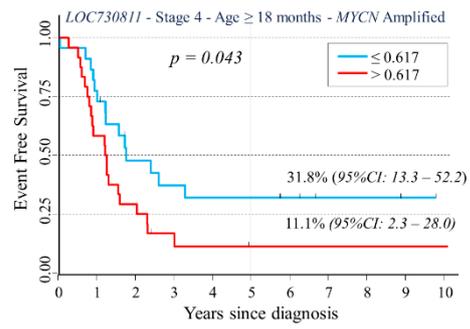
(h) $p = 0.765$; $p = 0.283$; $p = 0.429$

Association between *LOC730811* expression and the main patient characteristics at diagnosis and outcome evaluated on the entire cohort. (a) Number of events. (b) Number of deaths. (c) Number of events by age at diagnosis. (d) Number of deaths by age at diagnosis. (e) Number of events by *MYCN* status. (f) Number of deaths by *MYCN* status. (g) Number of events by stage at diagnosis. (h) Number of deaths by stage at diagnosis.

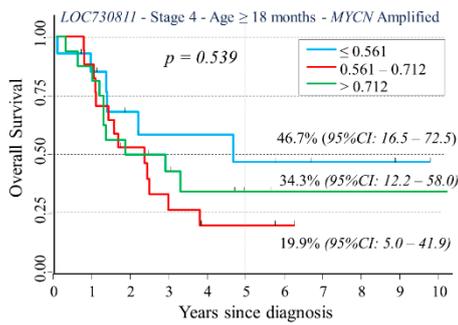
Supplementary Figure S8



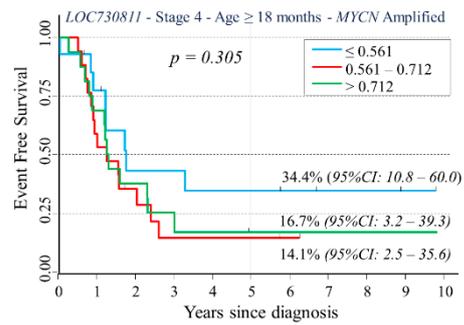
(A)



(B)



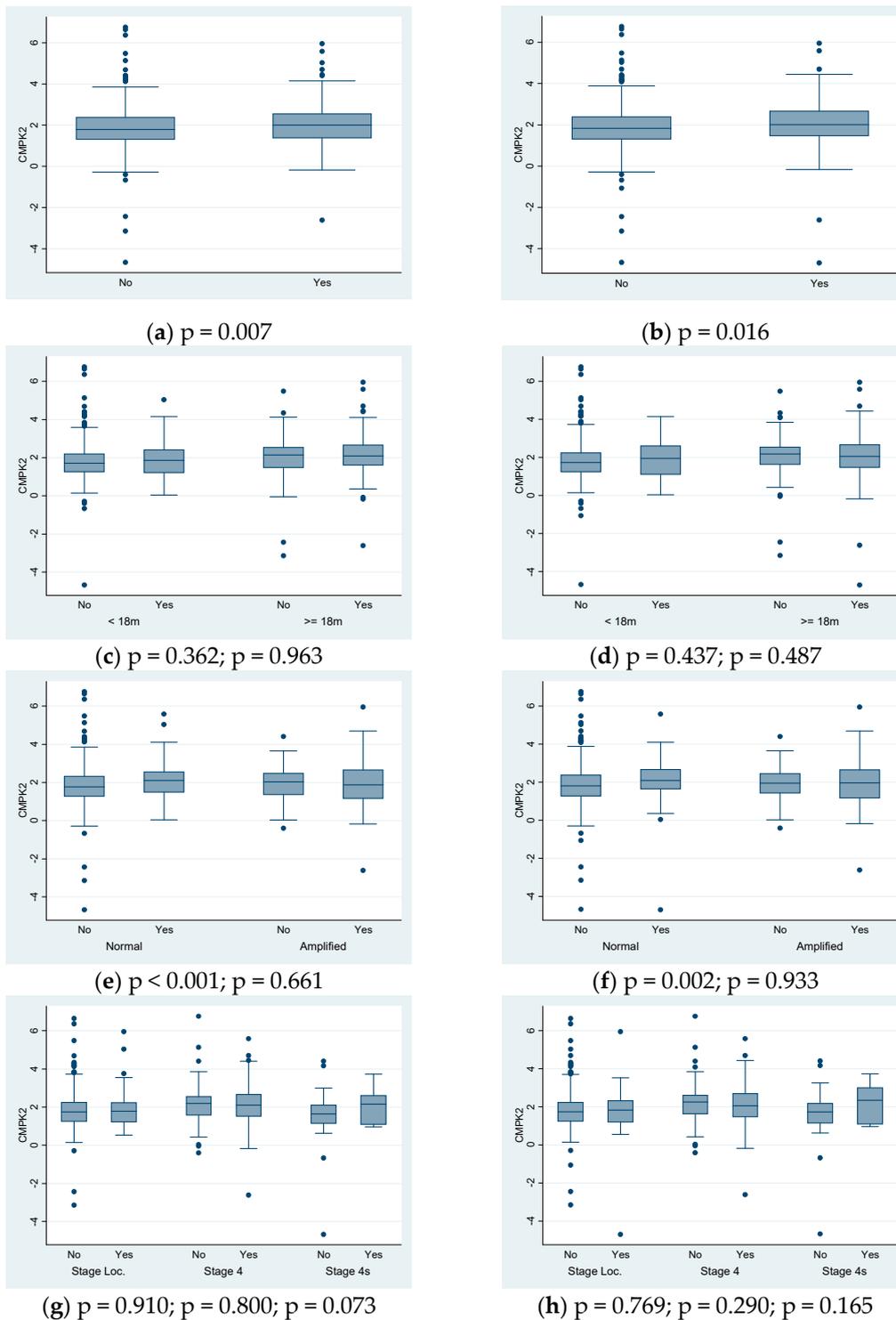
(C)



(D)

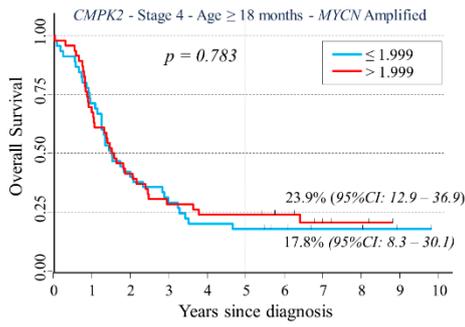
Survival of patients with age \geq 18 months, stage 4 disease and MYCN amplification at diagnosis in relation to LOC730811 expression level. (A) Overall Survival, cut-off based on the median expression value. (B) Event Free Survival, cut-off based on the median expression value. (C) Overall Survival, cut-offs based on tertile expression values. (D) Event Free Survival, cut-offs based on tertile expression values. Five-year survival estimates are displayed.

Supplementary Figure S9

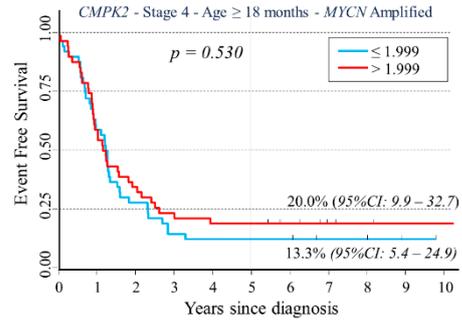


Association between *CMPK2* gene expression and the main patient characteristics at diagnosis and outcome evaluated on the entire cohort. (a) Number of events. (b) Number of deaths. (c) Number of events by age at diagnosis. (d) Number of deaths by age at diagnosis. (e) Number of events by *MYCN* status. (f) Number of deaths by *MYCN* status. (g) Number of events by stage at diagnosis. (h) Number of deaths by stage at diagnosis.

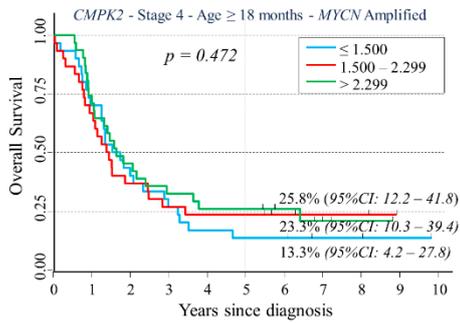
Supplementary Figure S10



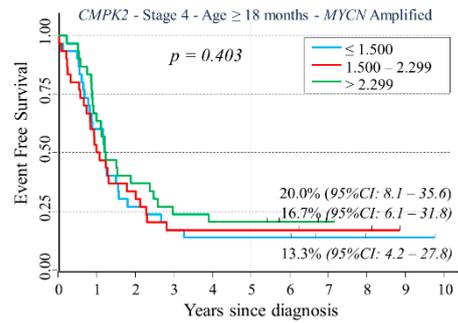
(A)



(B)



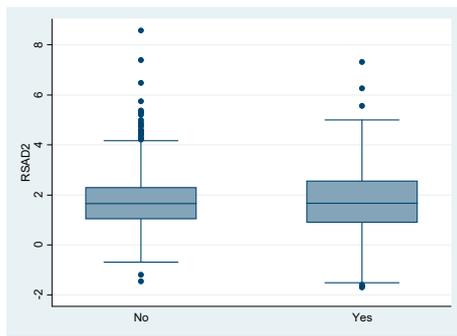
(C)



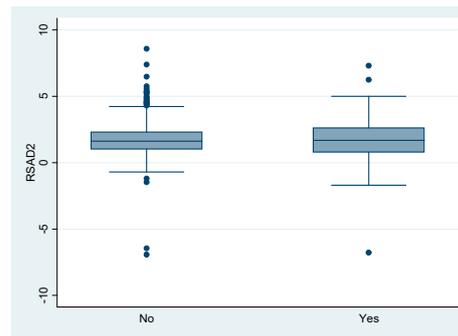
(D)

Survival of patients with age \geq 18 months, stage 4 disease and *MYCN* amplification at diagnosis in relation to *CMPK2* expression level. (A) Overall Survival, cut-off based on the median expression value. (B) Event Free Survival, cut-off based on the median expression value. (C) Overall Survival, cut-offs based on tertile expression values. (D) Event Free Survival, cut-offs based on tertile expression values. Five-year survival estimates are displayed.

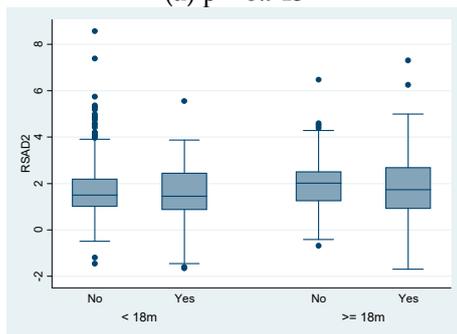
Supplementary Figure S11



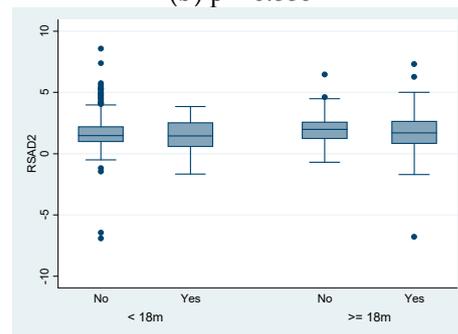
(a) $p = 0.943$



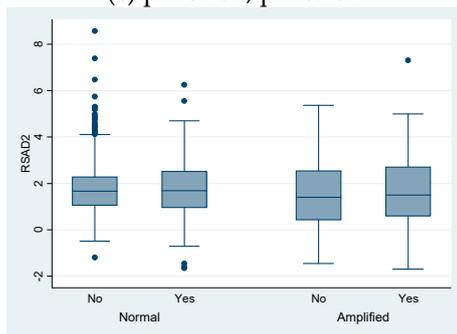
(b) $p = 0.880$



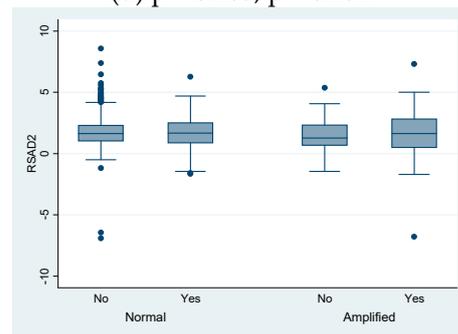
(c) $p = 0.454$; $p = 0.254$



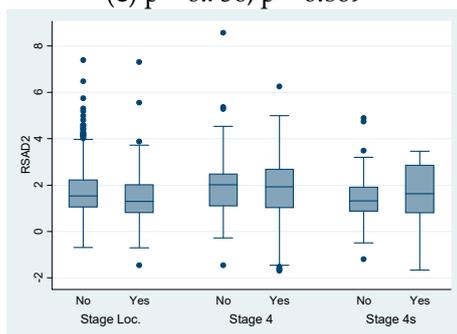
(d) $p = 0.403$; $p = 0.134$



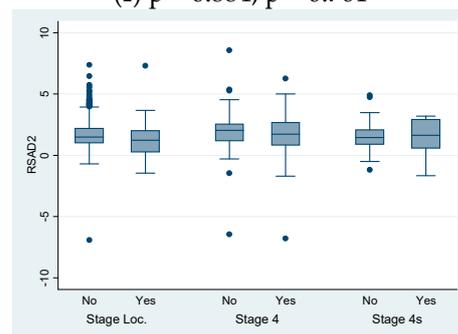
(e) $p = 0.756$; $p = 0.869$



(f) $p = 0.884$; $p = 0.701$



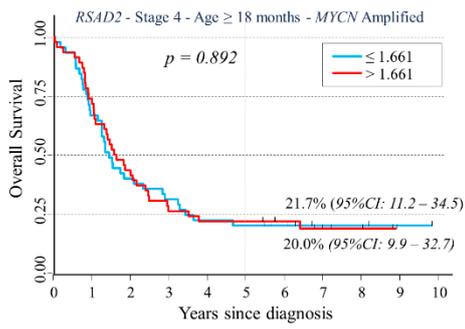
(g) $p = 0.013$; $p = 0.521$; $p = 0.495$



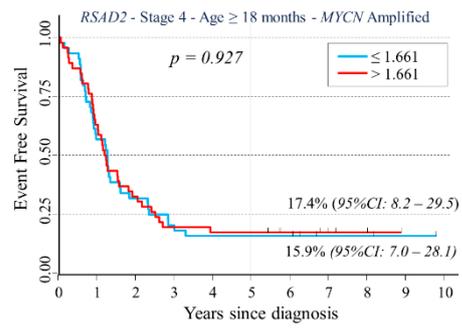
(h) $p = 0.029$; $p = 0.247$; $p = 0.899$

Association between *RSAD2* gene expression and the main patient characteristics at diagnosis and outcome evaluated on the entire cohort. (a) Number of events. (b) Number of deaths. (c) Number of events by age at diagnosis. (d) Number of deaths by age at diagnosis. (e) Number of events by *MYCN* status. (f) Number of deaths by *MYCN* status. (g) Number of events by stage at diagnosis. (h) Number of deaths by stage at diagnosis.

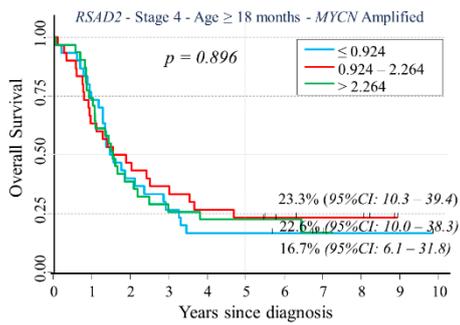
Supplementary Figure S12



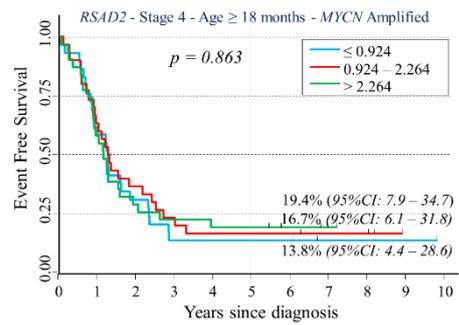
(A)



(B)



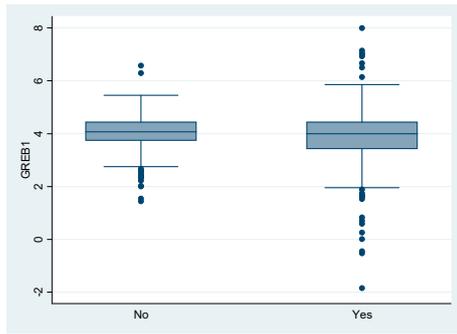
(C)



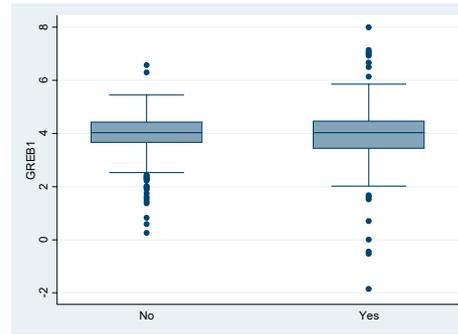
(D)

Survival of patients with age \geq 18 months, stage 4 disease and MYCN amplification at diagnosis in relation to RSAD2 expression level. (A) Overall Survival, cut-off based on the median expression value. (B) Event Free Survival, cut-off based on the median expression value. (C) Overall Survival, cut-offs based on tertile expression values. (D) Event Free Survival, cut-offs based on tertile expression values. Five-year survival estimates are displayed.

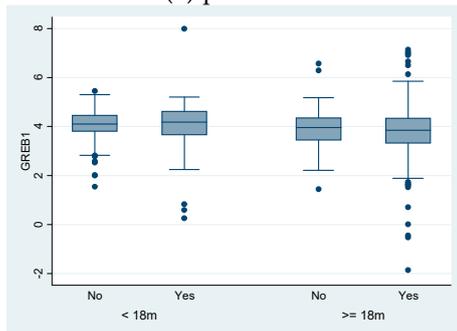
Supplementary Figure S13



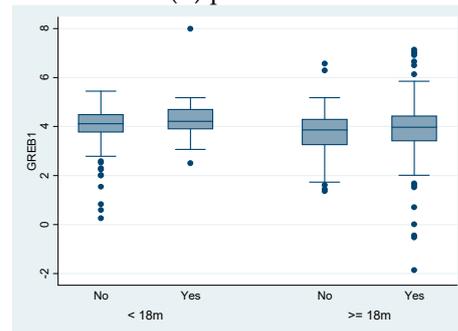
(a) $p = 0.037$



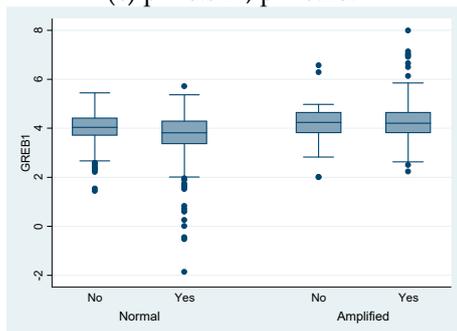
(b) $p = 0.432$



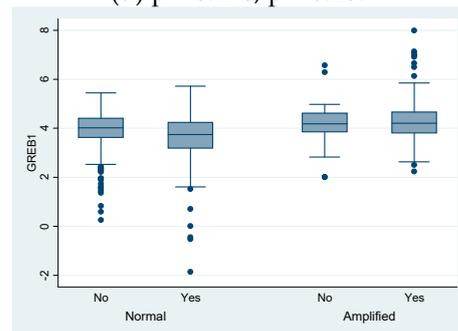
(c) $p = 0.317$; $p = 0.209$



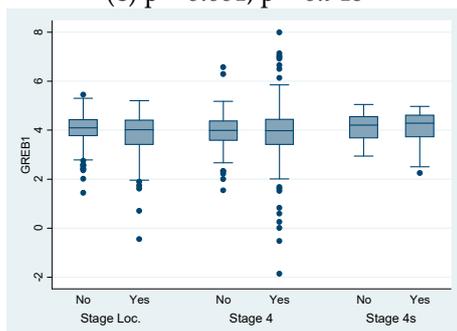
(d) $p = 0.176$; $p = 0.269$



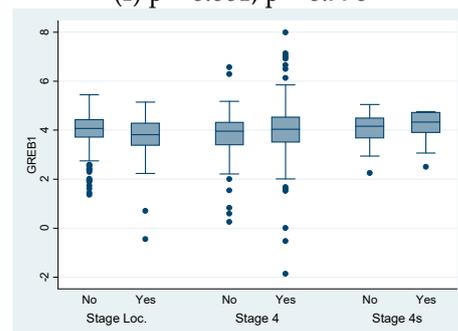
(e) $p < 0.001$; $p = 0.946$



(f) $p < 0.001$; $p = 0.770$



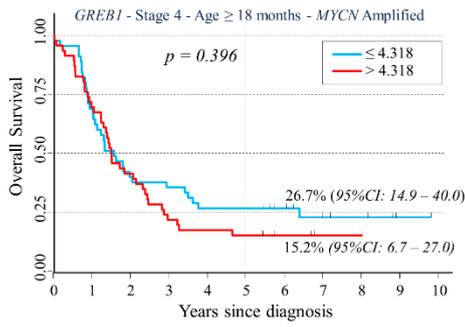
(g) $p = 0.049$; $p = 0.757$; $p = 0.795$



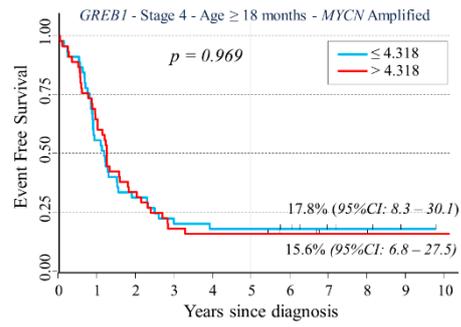
(h) $p = 0.024$; $p = 0.176$; $p = 0.560$;

Association between *GREB1* gene expression and the main patient characteristics at diagnosis and outcome evaluated on the entire cohort. (a) Number of events. (b) Number of deaths. (c) Number of events by age at diagnosis. (d) Number of deaths by age at diagnosis. (e) Number of events by *MYCN* status. (f) Number of deaths by *MYCN* status. (g) Number of events by stage at diagnosis. (h) Number of deaths by stage at diagnosis.

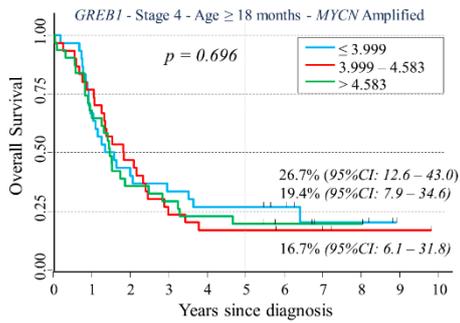
Supplementary Figure S14



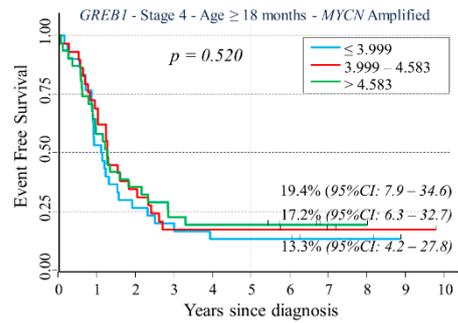
(A)



(B)



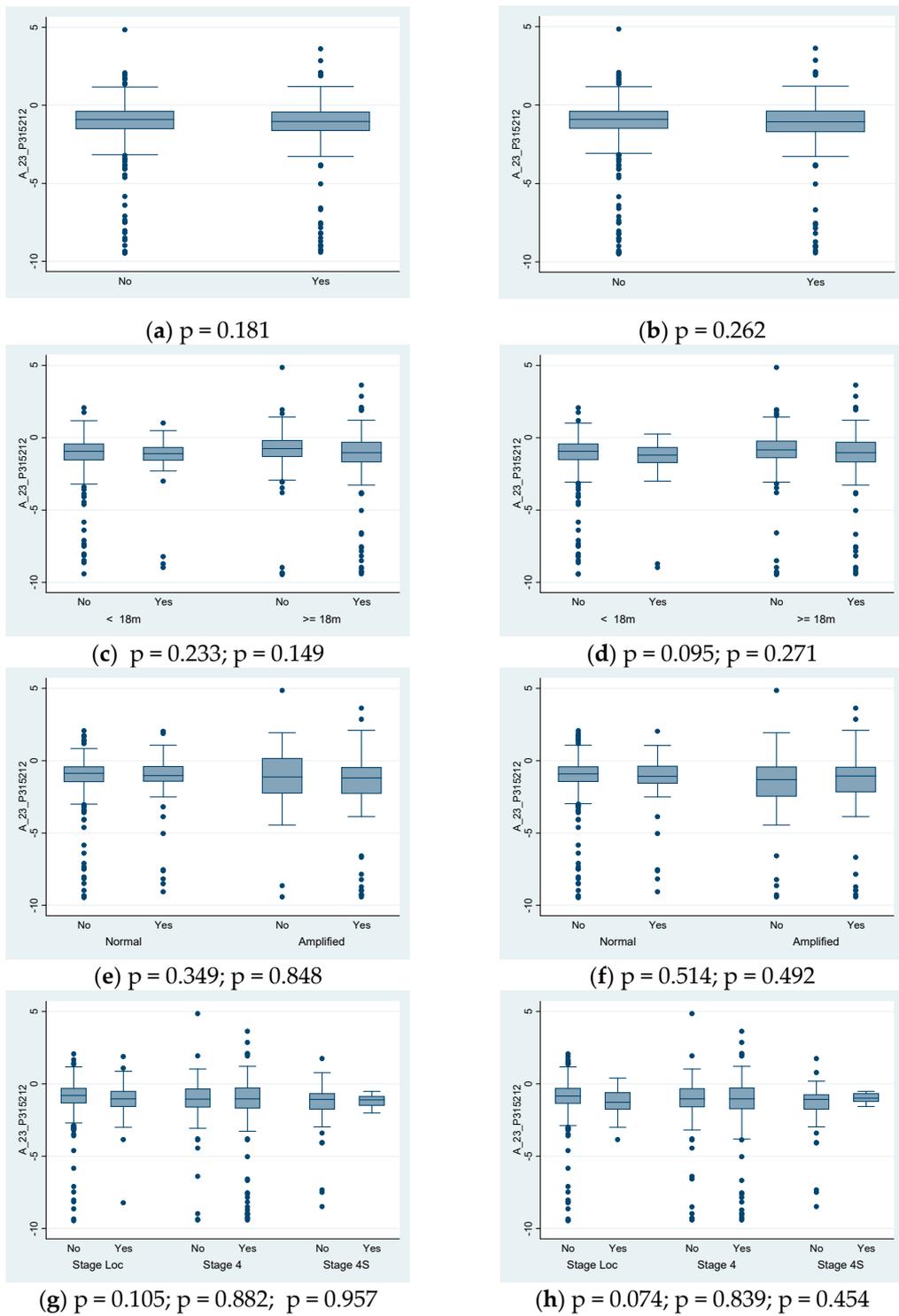
(C)



(D)

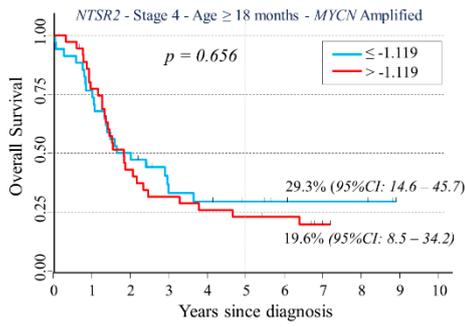
Survival of patients with age \geq 18 months, stage 4 disease and MYCN amplification at diagnosis in relation to GREB1 expression level. (A) Overall Survival, cut-off based on the median expression value. (B) Event Free Survival, cut-off based on the median expression value. (C) Overall Survival, cut-offs based on tertile expression values. (D) Event Free Survival, cut-offs based on tertile expression values. Five-year survival estimates are displayed.

Supplementary Figure S15

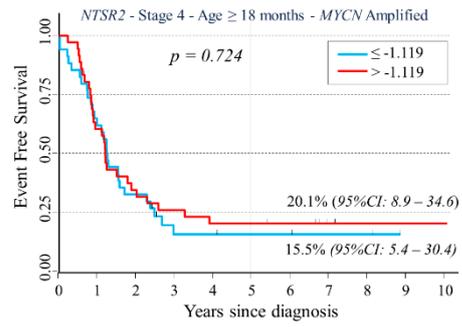


Association between *NTSR2* gene expression and the main patient characteristics at diagnosis and outcome evaluated on the entire cohort. **(a)** Number of events. **(b)** Number of deaths. **(c)** Number of events by age at diagnosis. **(d)** Number of deaths by age at diagnosis. **(e)** Number of events by *MYCN* status. **(f)** Number of deaths by *MYCN* status. **(g)** Number of events by stage at diagnosis. **(h)** Number of deaths by stage at diagnosis.

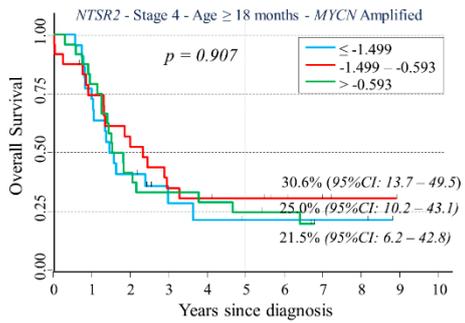
Supplementary Figure S16



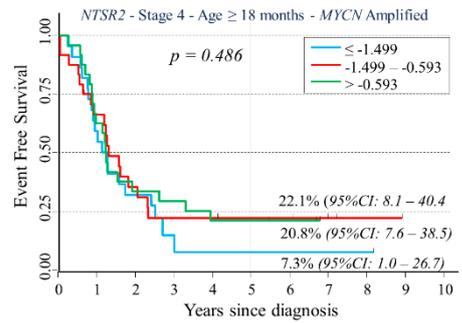
(A)



(B)



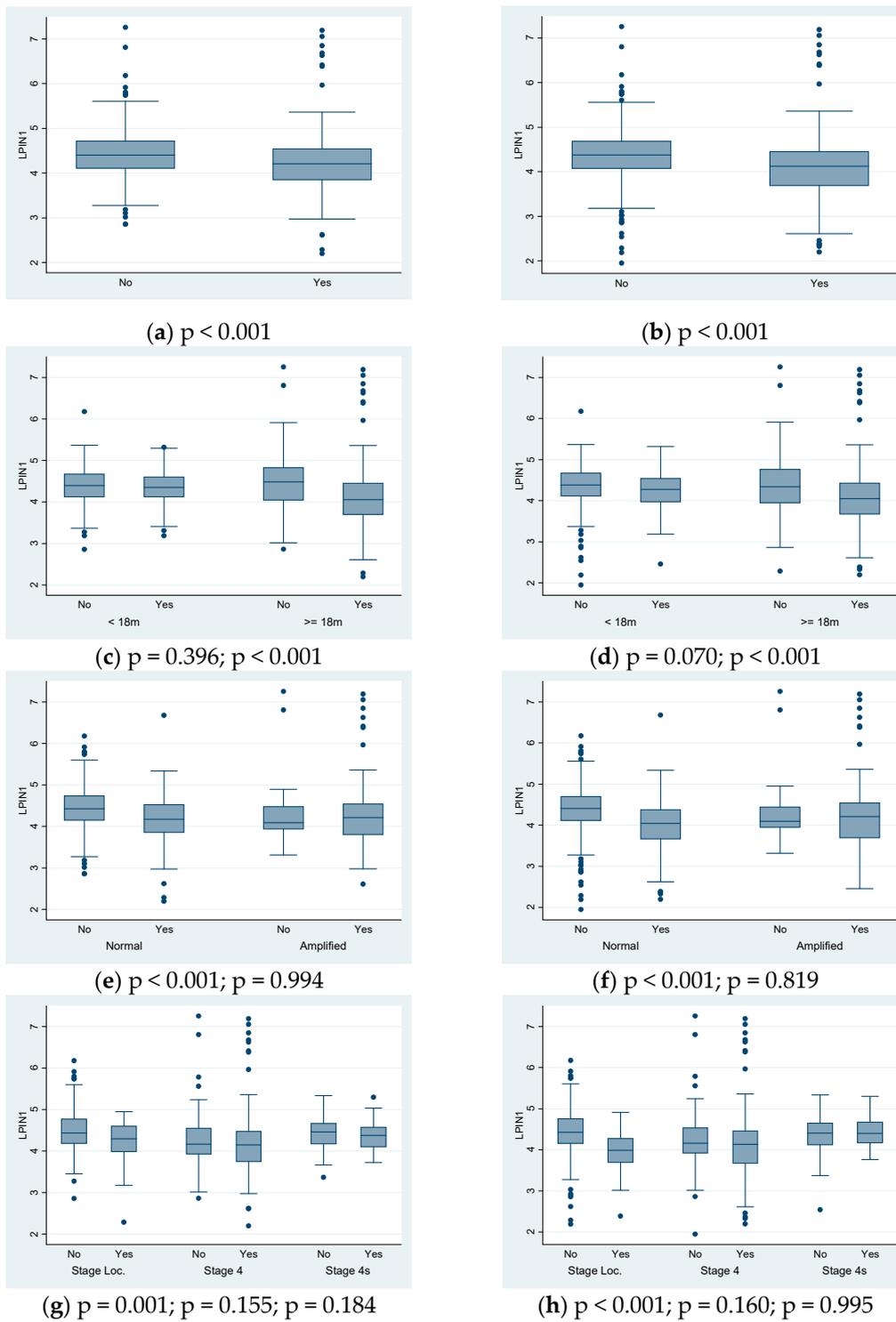
(C) $p = 0.907$



(D) $p = 0.486$

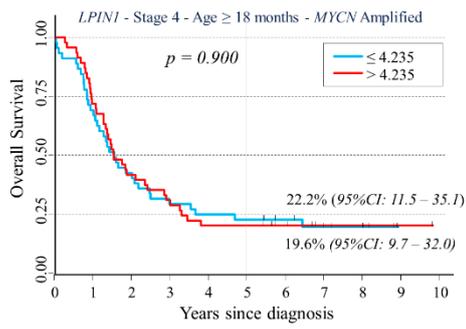
Survival of patients with age \geq 18 months, stage 4 disease and MYCN amplification at diagnosis in relation to NTSR2 expression level. (A) Overall Survival, cut-off based on the median expression value. (B) Event Free Survival, cut-off based on the median expression value. (C) Overall Survival, cut-offs based on tertile expression values. (D) Event Free Survival, cut-offs based on tertile expression values. Five-year survival estimates are displayed.

Supplementary Figure S17

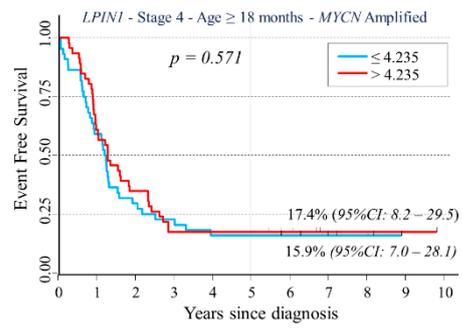


Association between *LPIN1* gene expression and the main patient characteristics at diagnosis and outcome evaluated on the entire cohort. (a) Number of events. (b) Number of deaths. (c) Number of events by age at diagnosis. (d) Number of deaths by age at diagnosis. (e) Number of events by *MYCN* status. (f) Number of deaths by *MYCN* status. (g) Number of events by stage at diagnosis. (h) Number of deaths by stage at diagnosis.

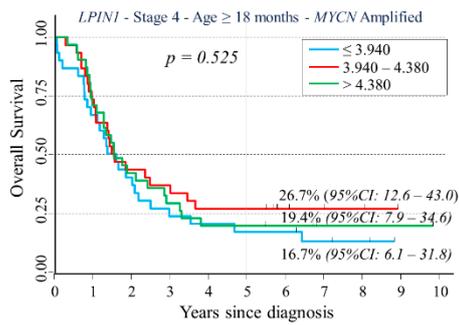
Supplementary Figure S18



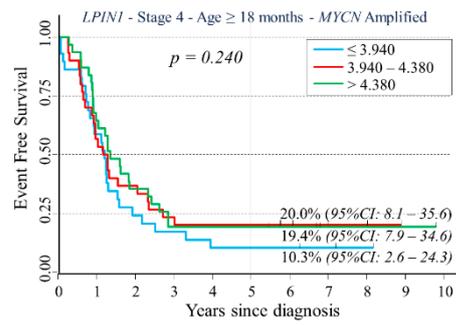
(A)



(B)



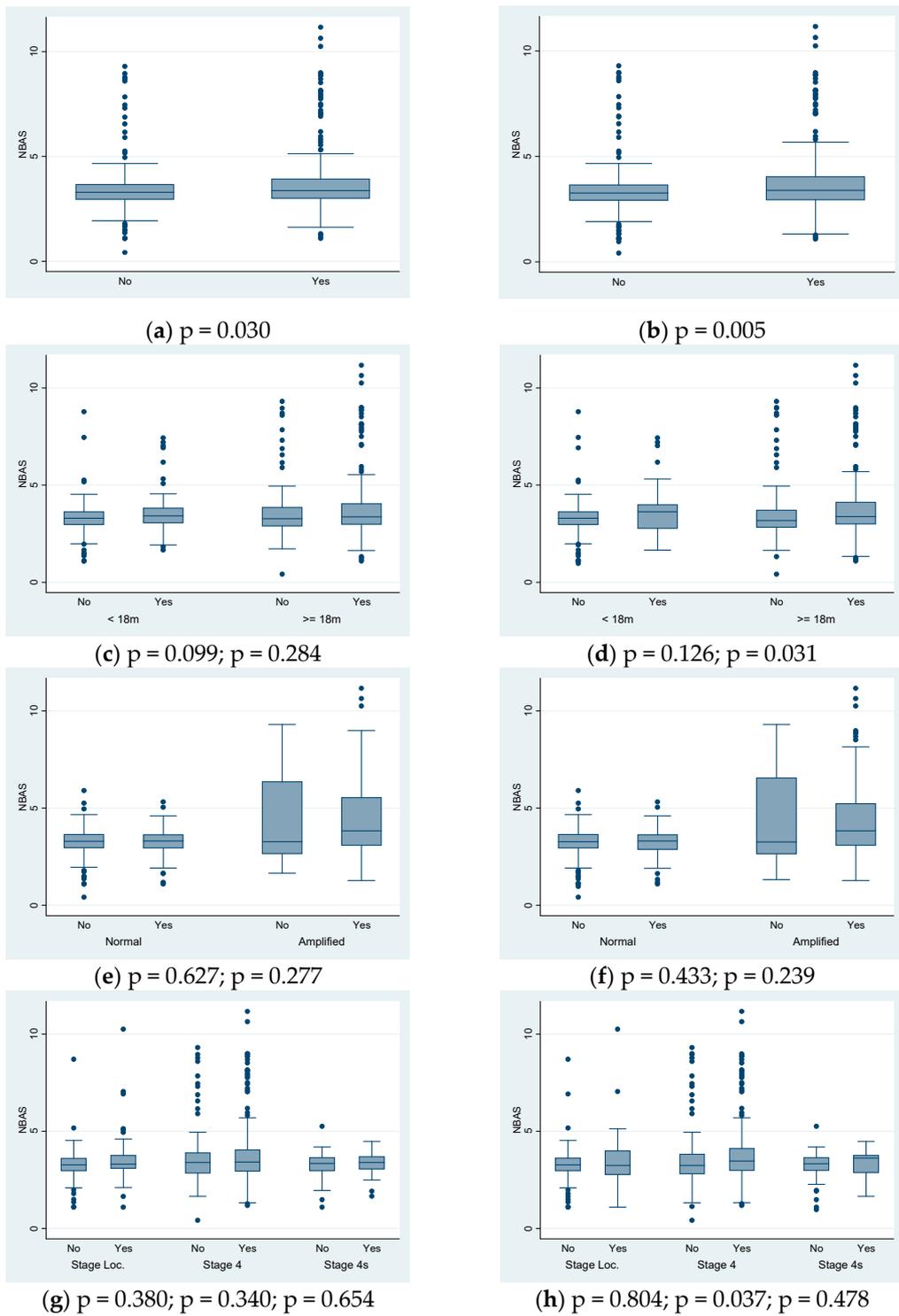
(C)



(D)

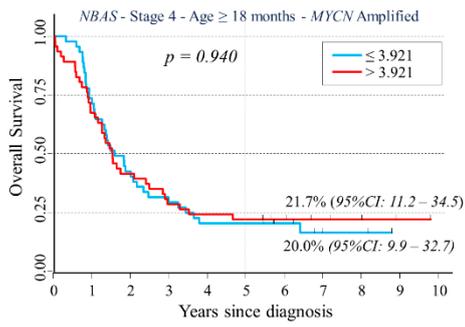
Survival of patients with age \geq 18 months, stage 4 disease and MYCN amplification at diagnosis in relation to LPIN1 expression level. (A) Overall Survival, cut-off based on the median expression value. (B) Event Free Survival, cut-off based on the median expression value. (C) Overall Survival, cut-offs based on tertile expression values. (D) Event Free Survival, cut-offs based on tertile expression values. Five-year survival estimates are displayed.

Supplementary Figure S19

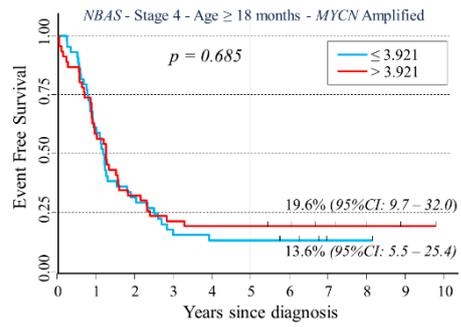


Association between *NBAS* gene expression and the main patient characteristics at diagnosis and outcome evaluated on the entire cohort. (a) Number of events. (b) Number of deaths. (c) Number of events by age at diagnosis. (d) Number of deaths by age at diagnosis. (e) Number of events by *MYCN* status. (f) Number of deaths by *MYCN* status. (g) Number of events by stage at diagnosis. (h) Number of deaths by stage at diagnosis.

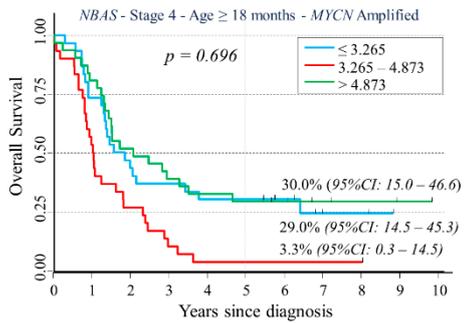
Supplementary Figure S20



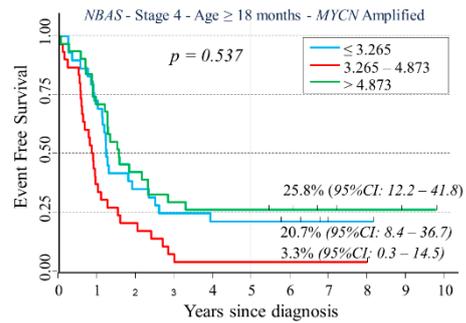
(A)



(B)



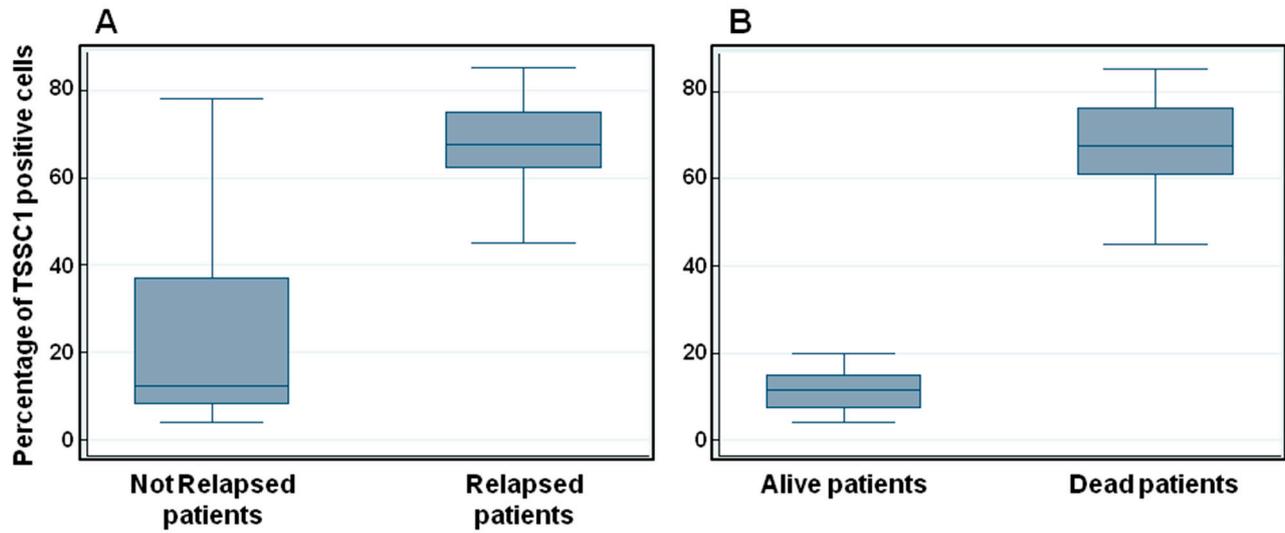
(C)



(D)

Survival of patients with age ≥ 18 months, stage 4 disease and *MYCN* amplification at diagnosis in relation to *NBAS* expression level. (A) Overall Survival, cut-off based on the median expression value. (B) Event Free Survival, cut-off based on the median expression value. (C) Overall Survival, cut-offs based on tertile expression values. (D) Event Free Survival, cut-offs based on tertile expression values. Five-year survival estimates are displayed.

Supplementary Figure S21



Relative TSSC1 expression levels were plotted in not relapsed or relapsed patients (**A**) and in alive or dead patients (**B**) ($p < 0.001$).

Supplementary Tables

Table S1. Expression level of the target genes in the normal adrenal gland tissue.

Gene	Gene description	Adrenal gland tissue RNA expression*
<i>MYT1L</i>	Myelin transcription factor 1 like	GTEX RNA-seq: 0.5 pTPM
<i>TSSC1</i>	Tumor Suppressing Subtransferable Candidate 1	GTEX RNA-seq: 15.8 pTPM
<i>CMPK2</i>	Cytidine/uridine monophosphate kinase 2	GTEX RNA-seq: 1.5 pTPM
<i>RSAD2</i>	Radical S-adenosyl methionine domain containing 2	GTEX RNA-seq: 2.2 pTPM
<i>RNF144A</i>	Ring finger protein 144A	GTEX RNA-seq: 23.2 pTPM
<i>GREB1</i>	Growth regulation by estrogen in breast cancer 1	GTEX RNA-seq: 3.1 pTPM
<i>NTSR2</i>	Neurotensin Receptor 2	GTEX RNA-seq: 1.0 pTPM
<i>LPIN1</i>	Lipin 1	GTEX RNA-seq: 17.3 pTPM
<i>NBAS</i>	Neuroblastoma amplified sequence	GTEX RNA-seq: 21.2 pTPM

GTEX= Genotype-Tissue Expression

*The mRNA expression data is derived from deep sequencing of RNA (RNA-seq) by GTEx Consortium (Sequencing platform: Illumina HiSeq 2000 or HiSeq X). The RNA-seq tissue data generated by the GTEx project are reported as mean pTPM (protein-coding transcripts per million), hence corresponding to the mean values of the different individual samples from each tissue. The data are included in the Genotype-Tissue Expression (GTEx) database (GTEx Consortium. *The Genotype-Tissue Expression (GTEx) project. Nat Genet.* 2013, 45, 580-585).

Table S2. Overall Survival of 786 NB patients in relation to *RNF144A* expression levels by *MYCN* status.

Gene expression	N/D	OS	95%CI	<i>p</i>
<i>MYCN normal</i>				
Cut-off based on the median value				< 0.001
≤ 4.572	314/81	73.3	67.8 – 78.0	
> 4.572	315/38	88.6	84.5 – 91.6	
Cut-offs based on tertile values				< 0.001
≤ 4.332	209/62	69.2	62.0 – 75.3	
4.332 – 4.820	210/35	84.1	78.4 – 88.4	
> 4.820	210/22	89.5	84.5 – 93.0	
<i>MYCN amplified</i>				
Cut-off based on the median value				0.218
≤ 4.383	76/56	26.3	17.0 – 36.5	
> 4.383	77/52	32.0	21.8 – 42.6	
Cut-offs based on tertile values				0.255
≤ 4.201	51/36	29.4	17.7 – 42.1	
4.201 – 4.550	51/40	20.6	10.5 – 33.0	
> 4.550	51/32	37.3	24.3 – 50.2	
<i>All patients</i>				
Cut-off based on the median value				< 0.001
≤ 4.544	393/151	60.8	55.6 – 65.6	
> 4.544	393/78	80.4	76.1 – 84.1	
Cut-offs based on tertile values				< 0.001
≤ 4.299	262/105	58.9	52.4 – 64.8	
4.299 – 4.759	262/81	69.4	63.4 – 74.7	
> 4.759	262/43	83.6	78.5 – 87.6	

N/D = Number of patients/ deaths. OS = Ten-year Overall Survival, 95%CI: 95% confidence interval of OS. N.e. = not evaluable.

Table S3. Overall Survival of 786 NB patients in relation to *RNF144A* expression levels by stage at diagnosis, evaluated by the Kaplan-Meier method.

Gene expression	N/D	OS	95%CI	p
<i>Localised stage</i>				
Cut-off based on the median value				< 0.001
≤ 4.618	186/27	85.4	79.4 – 89.8	
> 4.618	187/8	95.7	91.6 – 97.8	
Cut-offs based on tertile values				0.001
≤ 4.384	124/19	84.6	77.0 – 89.9	
4.384 – 4.853	124/12	90.3	83.5 – 94.4	
> 4.853	125/4	96.8	91.7 – 98.8	
<i>Stage 4</i>				
Cut-off based on the median value				0.017
≤ 4.384	160/102	34.4	26.5 – 42.4	
> 4.384	160/81	50.3	42.3 – 57.8	
Cut-offs based on tertile values				0.009
≤ 4.178	106/68	34.0	24.4 – 43.9	
4.178 – 4.627	107/67	37.3	28.0 – 46.6	
> 4.627	107/48	56.1	46.2 – 64.9	
<i>Stage 4S</i>				
Cut-off based on the median value				0.783
≤ 4.733	46/5	87.0	70.0 – 94.7	
> 4.733	46/6	87.0	73.3 – 93.9	
Cut-offs based on tertile values				<i>n.e.</i>
≤ 4.520	30/4	<i>n.e.</i>	<i>n.e.</i>	
4.520 – 4.883	31/3	<i>n.e.</i>	<i>n.e.</i>	
> 4.883	31/4	<i>n.e.</i>	<i>n.e.</i>	
<i>All patients</i>				
Cut-off based on the median value				< 0.001
≤ 4.544	393/151	60.8	55.6 – 65.6	
> 4.544	393/78	80.4	76.1 – 84.1	
Cut-offs based on tertile values				< 0.001
≤ 4.299	262/105	58.9	52.4 – 64.8	
4.299 – 4.759	262/81	69.4	63.4 – 74.7	
> 4.759	262/43	83.6	78.5 – 87.6	

N/D = Number of patients/ deaths. OS = Overall Survival, 95%CI: 95% confidence interval of OS. N.e. = not evaluable

Table S4. Event Free Survival of 769 NB patients in relation to *RNF144A* expression levels by *MYCN* status.

Gene expression	N/E	EFS	95%CI	<i>p</i>
<i>MYCN normal</i>				
Cut-off based on the median value				<i>0.001</i>
≤ 4.572	301/122	59.4	53.6 – 64.7	
> 4.572	313/85	73.2	67.9 – 77.7	
Cut-offs based on tertile values				<i>0.001</i>
≤ 4.332	196/87	55.6	48.3 – 62.2	
4.332 – 4.820	208/63	70.2	63.5 – 75.9	
> 4.820	210/57	72.9	66.3 – 78.4	
<i>MYCN amplified</i>				
Cut-off based on the median value				<i>0.790</i>
≤ 4.383	74/54	27.0	17.5 – 37.4	
> 4.383	77/57	25.0	15.7 – 35.5	
Cut-offs based on tertile values				<i>0.962</i>
≤ 4.201	49/34	30.6	18.5 – 43.6	
4.201 – 4.550	51/40	21.6	11.6 – 33.6	
> 4.550	51/37	26.1	14.6 – 39.3	
<i>All patients</i>				
Cut-off based on the median value				<i>< 0.001</i>
≤ 4.544	378/189	50.0	44.8 – 54.9	
> 4.544	391/131	66.7	61.7 – 71.1	
Cut-offs based on tertile values				<i>< 0.001</i>
≤ 4.299	247/127	48.6	42.2 – 54.6	
4.299 – 4.759	260/112	57.1	50.8 – 62.9	
> 4.759	262/81	69.1	63.1 – 74.3	

N/E = Number of patients/events. EFS = Ten-year Event Free Survival, 95%CI: 95% confidence interval of EFS.

Table S5. Event Free Survival of 769 NB patients in relation to *RNF144A* expression levels by stage at diagnosis, evaluated by the Kaplan-Meier method.

Gene expression	N/E	EFS	95%CI	<i>p</i>
<i>Localised stage</i>				
Cut-off based on the median value				<i>0.413</i>
≤ 4.618	178/46	74.2	67.1 – 80.0	
> 4.618	186/40	78.5	71.9 – 83.7	
Cut-offs based on tertile values				<i>0.571</i>
≤ 4.384	116/28	75.9	67.0 – 82.7	
4.384 – 4.853	123/33	73.2	64.4 – 80.1	
> 4.853	125/25	80.0	71.9 – 86.0	
<i>Stage 4</i>				
Cut-off based on the median value				<i>0.003</i>
≤ 4.384	154/114	26.0	19.3 – 33.1	
> 4.384	160/92	42.9	35.1 – 50.5	
Cut-offs based on tertile values				<i>0.002</i>
≤ 4.178	100/75	25.0	17.0 – 33.8	
4.178 – 4.627	107/75	30.8	22.4 – 39.7	
> 4.627	107/56	47.3	37.5 – 56.5	
<i>Stage 4S</i>				
Cut-off based on the median value				<i>0.772</i>
≤ 4.733	45/13	71.1	55.5 – 82.1	
> 4.733	45/14	68.9	53.2 – 80.3	
Cut-offs based on tertile values				<i>0.881</i>
≤ 4.520	29/11	62.1	42.1 – 76.9	
4.520 – 4.883	30/5	83.3	64.5 – 92.7	
> 4.883	31/11	64.5	45.2 – 78.5	
<i>All patients</i>				
Cut-off based on the median value				<i>< 0.001</i>
≤ 4.544	378/189	50.0	44.8 – 54.9	
> 4.544	391/131	66.7	61.7 – 71.1	
Cut-offs based on tertile values				<i>< 0.001</i>
≤ 4.299	247/127	48.6	42.2 – 54.6	
4.299 – 4.759	260/112	57.1	50.8 – 62.9	
> 4.759	262/81	69.1	63.1 – 74.3	

N/E = Number of patients/events. EFS = Ten-year Event Free Survival, 95%CI: 95% confidence interval of EFS.

Table S6. Overall Survival of 786 NB patients in relation to *MYT1L* expression levels by *MYCN* status.

Gene expression	N/D	OS	95%CI	<i>p</i>
<i>MYCN normal</i>				
Cut-off based on the median value				<i>< 0.001</i>
≤ 4.412	314/88	71.7	66.2 – 76.5	
> 4.412	315/31	90.1	86.1 – 93.0	
Cut-offs based on tertile values				<i>< 0.001</i>
≤ 4.143	209/68	67.2	60.2 – 73.2	
4.143 – 4.672	210/33	83.8	77.6 – 88.4	
> 4.672	210/18	91.8	87.0 – 94.8	
<i>MYCN amplified</i>				
Cut-off based on the median value				<i>0.005</i>
≤ 3.955	76/62	19.7	11.7 – 29.3	
> 3.955	77/46	40.3	29.3 – 50.9	
Cut-offs based on tertile values				<i>0.018</i>
≤ 3.695	51/40	23.5	13.0 – 35.8	
3.695 – 4.127	51/39	23.5	13.0 – 35.8	
> 4.127	51/29	43.1	29.4 – 56.1	
<i>All patients</i>				
Cut-off based on the median value				<i>< 0.001</i>
≤ 4.316	393/171	56.0	50.7 – 60.9	
> 4.316	393/58	85.2	81.2 – 88.4	
Cut-offs based on tertile values				<i>< 0.001</i>
≤ 3.991	262/128	50.7	44.4 – 56.7	
3.991 – 4.589	262/69	72.9	66.7 – 78.1	
> 4.589	262/32	88.1	83.4 – 91.5	

N/D = Number of patients/ deaths. OS = Ten-year Overall Survival, 95%CI: 95% confidence interval of OS. N.e. = not evaluable

Table S7. Overall Survival of 786 NB patients in relation to *MYT1L* expression levels by stage at diagnosis, evaluated by the Kaplan-Meier method.

Gene expression	N/D	OS	95%CI	p
<i>Localised stage</i>				
Cut-off based on the median value				< 0.001
≤ 4.487	186/28	84.8	78.8 – 89.3	
> 4.487	187/7	96.3	92.3 – 98.2	
Cut-offs based on tertile values				< 0.001
≤ 4.240	124/26	78.9	70.6 – 85.1	
4.240 – 4.734	124/7	94.4	88.5 – 97.3	
> 4.734	125/2	98.4	93.8 – 99.6	
<i>Stage 4</i>				
Cut-off based on the median value				0.017
≤ 3.980	160/102	35.8	28.2 – 43.4	
> 3.980	160/81	49.1	40.7 – 57.0	
Cut-offs based on tertile values				0.009
≤ 3.727	106/65	38.6	29.1 – 48.0	
3.727 – 4.302	107/71	30.8	21.3 – 40.7	
> 4.302	107/47	57.4	47.3 – 66.2	
<i>Stage 4S</i>				
Cut-off based on the median value				0.679
≤ 4.580	46/6	87.0	73.3 – 93.9	
> 4.580	46/5	88.7	74.9 – 95.2	
Cut-offs based on tertile values				n.e.
≤ 4.320	30/5	n.e.	n.e.	
4.320 – 4.763	31/2	n.e.	n.e.	
> 4.763	31/4	n.e.	n.e.	
<i>All patients</i>				
Cut-off based on the median value				< 0.001
≤ 4.316	393/171	56.0	50.7 – 60.9	
> 4.316	393/58	85.2	81.2 – 88.4	
Cut-offs based on tertile values				< 0.001
≤ 3.991	262/128	50.7	44.4 – 56.7	
3.991 – 4.589	262/69	72.9	66.7 – 78.1	
> 4.589	262/32	88.1	83.4 – 91.5	

N/D = Number of patients/ deaths. OS = Ten-year Overall Survival, 95%CI: 95% confidence interval of OS. N.e. = not evaluable

Table S8. Event Free Survival of 769 NB patients in relation to *MYT1L* expression levels by *MYCN* status.

Gene expression	N/E	EFS	95%CI	p
<i>MYCN normal</i>				
Cut-off based on the median value				< 0.001
≤ 4.412	303/133	56.4	50.7 – 61.8	
> 4.412	311/74	76.2	71.0 – 80.5	
Cut-offs based on tertile values				< 0.001
≤ 4.143	201/97	52.2	45.1 – 58.9	
4.143 – 4.672	205/68	66.8	59.9 – 72.8	
> 4.672	208/42	79.8	73.7 – 84.7	
<i>MYCN amplified</i>				
Cut-off based on the median value				0.014
≤ 3.955	75/62	17.3	9.8 – 26.7	
> 3.955	76/49	34.5	23.8 – 45.5	
Cut-offs based on tertile values				0.065
≤ 3.695	50/40	20.0	10.3 – 32.0	
3.695 – 4.127	51/39	23.5	13.0 – 35.8	
> 4.127	50/32	35.1	22.0 – 48.5	
<i>All patients</i>				
Cut-off based on the median value				< 0.001
≤ 4.316	393/171	56.0	50.7 – 60.9	
> 4.316	393/58	85.2	81.2 – 88.4	
Cut-offs based on tertile values				< 0.001
≤ 3.991	262/128	50.7	44.4 – 56.7	
3.991 – 4.589	262/69	72.9	66.7 – 78.1	
> 4.589	262/32	88.1	83.4 – 91.5	

N/E = Number of patients/events. EFS = Ten-year Event Free Survival, 95%CI: 95% confidence interval of EFS.

Table S9. Event Free Survival of 769 NB patients in relation to *MYT1L* expression levels by stage at diagnosis, evaluated by the Kaplan-Meier method.

Gene expression	N/E	EFS	95%CI	p
<i>Localised stage</i>				
Cut-off based on the median value				0.003
≤ 4.487	180/55	69.4	62.2 – 75.6	
> 4.487	184/31	83.2	76.9 – 87.8	
Cut-offs based on tertile values				0.002
≤ 4.240	120/40	66.7	57.5 – 74.3	
4.240 – 4.734	120/29	75.8	67.1 – 82.5	
> 4.734	124/17	86.3	78.9 – 91.2	
<i>Stage 4</i>				
Cut-off based on the median value				0.023
≤ 3.980	157/111	29.3	22.4 – 36.5	
> 3.980	157/95	39.9	32.2 – 47.5	
Cut-offs based on tertile values				0.007
≤ 3.727	103/72	30.1	21.6 – 39.1	
3.727 – 4.302	106/77	28.0	19.7 – 36.8	
> 4.302	105/57	45.7	36.0 – 54.9	
<i>Stage 4S</i>				
Cut-off based on the median value				0.404
≤ 4.580	44/15	65.9	50.0 – 77.9	
> 4.580	46/12	73.9	58.7 – 84.3	
Cut-offs based on tertile values				0.252
≤ 4.320	28/12	57.1	37.1 – 73.0	
4.320 – 4.763	31/6	80.7	61.9 – 90.8	
> 4.763	31/9	71.0	51.6 – 83.7	
<i>All patients</i>				
Cut-off based on the median value				< 0.001
≤ 4.316	383/212	44.8	39.7 – 49.7	
> 4.316	386/108	72.0	67.2 – 76.2	
Cut-offs based on tertile values				< 0.001
≤ 3.991	253/151	40.3	34.3 – 46.3	
3.991 – 4.589	257/107	58.5	52.2 – 64.3	
> 4.589	259/62	76.1	70.4 – 80.8	

N/E = Number of patients/events. EFS = Event Free Survival, 95%CI: 95% confidence interval of EFS.

Table S10. Overall Survival of 786 NB patients in relation to *TSSC1* expression levels by *MYCN* status.

Gene expression	N/D	OS	95%CI	p
<i>MYCN normal</i>				
Cut-off based on the median value				< 0.001
≤ 3.312	314/39	87.3	82.9 – 90.6	
> 3.312	315/80	74.5	69.0 – 79.1	
Cut-offs based on tertile values				< 0.001
≤ 3.122	209/24	87.9	82.5 – 91.8	
3.122– 3.473	210/32	85.6	80.0 – 89.7	
> 3.473	210/63	69.2	62.0 – 75.3	
<i>MYCN amplified</i>				
Cut-off based on the median value				0.039
≤ 3.540	76/48	36.8	26.2 – 47.5	
> 3.540	77/60	21.6	13.1 – 31.5	
Cut-offs based on tertile values				0.025
≤ 3.335	51/32	37.3	24.3 – 50.2	
3.335 – 3.769	51/33	35.3	22.6 – 48.2	
> 3.769	51/43	14.7	6.4 – 26.3	
<i>All patients</i>				
Cut-off based on the median value				< 0.001
≤ 3.346	393/75	80.6	76.2 – 84.2	
> 3.346	393/154	60.6	55.4 – 65.3	
Cut-offs based on tertile values				< 0.001
≤ 3.162	262/43	82.9	77.6 – 87.1	
3.162 – 3.520	262/66	75.3	69.6 – 80.1	
> 3.520	262/120	53.5	47.0 – 59.6	

N/D = Number of patients/ deaths. OS = Ten-year Overall Survival, 95%CI: 95% confidence interval of OS. N.e. = not evaluable

Table S11. Overall Survival of 786 NB patients in relation to *TSSC1* expression levels by stage at diagnosis, evaluated by the Kaplan-Meier method.

Gene expression	N/D	OS	95%CI	p
<i>Localised stage</i>				
Cut-off based on the median value				<i>0.007</i>
≤ 3.286	186/10	94.6	90.1 – 97.0	
> 3.286	187/25	86.6	80.8 – 90.7	
Cut-offs based on tertile values				<i>< 0.001</i>
≤ 3.124	124/6	95.2	89.6 – 97.8	
3.124 – 3.421	124/8	93.4	87.3 – 96.7	
> 3.421	125/21	83.1	75.3 – 88.7	
<i>Stage 4</i>				
Cut-off based on the median value				<i>0.003</i>
≤ 3.504	160/80	50.0	41.7 – 57.7	
> 3.504	160/103	34.9	27.2 – 42.6	
Cut-offs based on tertile values				<i>< 0.001</i>
≤ 3.273	106/50	52.2	41.9 – 61.6	
3.273 – 3.713	107/60	43.9	34.1 – 53.3	
> 3.713	107/73	31.2	22.2 – 40.6	
<i>Stage 4S</i>				
Cut-off based on the median value				<i>0.694</i>
≤ 3.241	46/5	88.5	74.3 – 95.1	
> 3.241	46/6	87.0	73.3 – 93.9	
Cut-offs based on tertile values				<i>n.e.</i>
≤ 3.111	30/2	n.e.	n.e.	
3.111 – 3.367	31/4	n.e.	n.e.	
> 3.367	31/5	n.e.	n.e.	
<i>All patients</i>				
Cut-off based on the median value				<i>< 0.001</i>
≤ 3.346	393/75	80.6	76.2 – 84.2	
> 3.346	393/154	60.6	55.4 – 65.3	
Cut-offs based on tertile values				<i>< 0.001</i>
≤ 3.162	262/43	82.9	77.6 – 87.1	
3.162 – 3.520	262/66	75.3	69.6 – 80.1	
> 3.520	262/120	53.5	47.0 – 59.6	

N/D = Number of patients/ deaths. OS = Ten year Overall Survival, 95%CI: 95% confidence interval of OS. N.e. = not evaluable

Table S12. Event Free Survival of 786 NB patients in relation to *TSSC1* expression levels by *MYCN* status.

Gene expression	N/E	EFS	95%CI	p
<i>MYCN normal</i>				
Cut-off based on the median value				0.264
≤ 3.312	306/98	68.3	62.7 – 73.2	
> 3.312	308/109	64.6	59.0 – 69.7	
Cut-offs based on tertile values				0.065
≤ 3.122	204/62	70.0	63.2 – 75.8	
3.122– 3.473	205/68	66.8	59.9 – 72.8	
> 3.473	205/77	62.4	55.4 – 68.7	
<i>MYCN amplified</i>				
Cut-off based on the median value				0.095
≤ 3.540	75/50	33.3	23.0 – 44.0	
> 3.540	76/61	19.0	10.8 – 28.8	
Cut-offs based on tertile values				0.039
≤ 3.335	50/32	36.0	23.1 – 49.1	
3.335 – 3.769	51/36	27.9	15.9 – 41.2	
> 3.769	50/43	14.0	6.2 – 25.0	
<i>All patients</i>				
Cut-off based on the median value				< 0.001
≤ 3.346	383/138	64.2	59.2 – 68.8	
> 3.346	386/182	52.7	47.6 – 57.6	
Cut-offs based on tertile values				< 0.001
≤ 3.162	256/89	65.6	59.4 – 71.1	
3.162 – 3.520	257/97	62.3	56.0 – 67.9	
> 3.520	256/134	47.4	41.1 – 53.4	

N/E = Number of patients/events. EFS = Ten-year Event Free Survival, 95%CI: 95% confidence interval of EFS.

Table S13. Event Free Survival of 769 NB patients in relation to *TSSC1* expression levels by stage at diagnosis, evaluated by the Kaplan-Meier method.

Gene expression	N/E	EFS	95%CI	p
<i>Localised stage</i>				
Cut-off based on the median value				0.790
≤ 3.286	181/44	75.7	68.8 – 81.3	
> 3.286	183/42	77.1	70.3 – 82.5	
Cut-offs based on tertile values				0.640
≤ 3.124	121/26	78.5	70.1 – 84.8	
3.124 – 3.421	121/31	74.4	65.6 – 81.2	
> 3.421	122/29	76.2	67.6 – 82.8	
<i>Stage 4</i>				
Cut-off based on the median value				0.020
≤ 3.504	157/97	38.9	31.2 – 46.4	
> 3.504	157/109	30.3	23.2 – 37.6	
Cut-offs based on tertile values				0.003
≤ 3.273	103/63	39.8	30.4 – 49.1	
3.273 – 3.713	106/65	38.3	29.0 – 47.5	
> 3.713	105/78	25.7	17.8 – 34.3	
<i>Stage 4S</i>				
Cut-off based on the median value				0.436
≤ 3.241	45/12	73.3	57.9 – 83.9	
> 3.241	45/15	66.7	50.9 – 78.4	
Cut-offs based on tertile values				0.375
≤ 3.111	29/7	75.9	55.9 – 87.7	
3.111 – 3.367	30/10	66.7	46.9 – 80.5	
> 3.367	31/10	67.7	48.4 – 81.2	
<i>All patients</i>				
Cut-off based on the median value				< 0.001
≤ 3.346	383/138	64.2	59.2 – 68.8	
> 3.346	386/182	52.7	47.6 – 57.6	
Cut-offs based on tertile values				< 0.001
≤ 3.162	256/89	65.6	59.4 – 71.1	
3.162 – 3.520	257/97	62.3	56.0 – 67.9	
> 3.520	256/134	47.4	41.1 – 53.4	

N/E = Number of patients/events. EFS = Ten-year Event Free Survival, 95%CI: 95% confidence interval of EFS.

Table S14. Overall Survival of 498 NB patients in relation to *LOC730811* expression levels by *MYCN* status.

Gene expression	N/D	OS	95%CI	<i>p</i>
<i>MYCN normal</i>				
Cut-off based on the median value				0.527
≤ 0.511	200/24	85.5	78.8 – 90.2	
> 0.511	201/29	83.7	77.0 – 88.6	
Cut-offs based on tertile values				0.637
≤ 0.414	133/19	83.0	74.4 – 89.0	
0.414 – 0.604	134/17	83.2	73.5 – 89.6	
> 0.604	134/17	87.2	79.9 – 92.0	
<i>MYCN amplified</i>				
Cut-off based on the median value				0.624
≤ 0.685	46/27	32.9	18.3 – 48.3	
> 0.685	46/24	41.8	26.4 – 56.4	
Cut-offs based on tertile values				0.535
≤ 0.570	30/17	34.7	16.8 – 53.2	
0.570 – 0.811	31/18	30.0	12.3 – 50.0	
> 0.811	31/16	45.4	26.8 – 62.3	
<i>All patients</i>				
Cut-off based on the median value				0.005
≤ 0.535	248/40	80.6	74.1 – 85.6	
> 0.535	250/65	71.9	65.3 – 77.4	
Cut-offs based on tertile values				0.096
≤ 0.438	166/31	79.1	71.4 – 84.9	
0.438 – 0.638	166/32	76.3	67.5 – 83.1	
> 0.638	166/42	73.3	65.5 – 79.6	

N/D = Number of patients/ deaths. OS = Ten-year Overall Survival, 95%CI: 95% confidence interval of OS. N.e. = not evaluable

Table S15. Overall Survival of 498 NB patients in relation to *LOC730811* expression levels by stage at diagnosis, evaluated by the Kaplan-Meier method.

Gene expression	N/D	OS	95%CI	p
<i>Localised stage</i>				
Cut-off based on the median value				<i>0.784</i>
≤ 0.497	131/10	91.0	83.6 – 95.1	
> 0.497	131/9	92.5	86.1 – 96.1	
Cut-offs based on tertile values				<i>0.540</i>
≤ 0.424	87/8	88.5	77.8 – 94.2	
0.424 – 0.624	87/5	93.8	85.8 – 97.4	
> 0.624	88/6	92.5	84.0 – 96.6	
<i>Stage 4</i>				
Cut-off based on the median value				<i>0.071</i>
≤ 0.582	91/36	50.2	36.9 – 62.1	
> 0.582	92/46	45.9	34.7 – 56.3	
Cut-offs based on tertile values				<i>0.322</i>
≤ 0.511	59/24	50.4	34.2 – 64.5	
0.511 – 0.713	63/30	44.6	29.8 – 58.4	
> 0.713	61/28	48.9	34.5 – 61.8	
<i>Stage 4S</i>				
Cut-off based on the median value				<i>n.e.</i>
≤ 0.483	26/3	n.e.	n.e.	
> 0.483	27/1	n.e.	n.e.	
Cut-offs based on tertile values				<i>n.e.</i>
≤ 0.376	17/1	n.e.	n.e.	
0.376 – 0.566	18/3	n.e.	n.e.	
> 0.566	17/0	n.e.	n.e.	
<i>All patients</i>				
Cut-off based on the median value				<i>0.005</i>
≤ 0.535	248/40	80.6	74.1 – 85.6	
> 0.535	250/65	71.9	65.3 – 77.4	
Cut-offs based on tertile values				<i>0.096</i>
≤ 0.438	166/31	79.1	71.4 – 84.9	
0.438 – 0.638	166/32	76.3	67.5 – 83.1	
> 0.638	166/42	73.3	65.5 – 79.6	

N/D = Number of patients/ deaths. OS = Ten-year Overall Survival, 95%CI: 95% confidence interval of OS. N.e. = not evaluable.

Table S16. Event Free Survival of 498 NB patients in relation to *LOC730811* expression levels by *MYCN* status.

Gene expression	N/E	EFS	95%CI	<i>p</i>
<i>MYCN normal</i>				
Cut-off based on the median value				<i>0.956</i>
≤ 0.511	200/60	68.8	61.7 – 74.9	
> 0.511	201/60	68.8	61.7 – 74.9	
Cut-offs based on tertile values				<i>0.134</i>
≤ 0.414	133/46	64.3	55.2 – 72.0	
0.414 – 0.604	134/40	68.5	59.5 – 75.9	
> 0.604	134/34	73.6	65.1 – 80.4	
<i>MYCN amplified</i>				
Cut-off based on the median value				<i>0.670</i>
≤ 0.685	46/31	27.2	14.7 – 41.3	
> 0.685	46/29	32.2	18.8 – 46.5	
Cut-offs based on tertile values				<i>0.390</i>
≤ 0.570	30/20	26.2	11.4 – 43.8	
0.570 – 0.811	31/22	22.1	8.8 – 39.1	
> 0.811	31/18	40.1	22.7 – 57.0	
<i>All patients</i>				
Cut-off based on the median value				<i>0.073</i>
≤ 0.535	248/82	65.5	59.0 – 71.2	
> 0.535	250/101	57.8	51.2 – 63.8	
Cut-offs based on tertile values				<i>0.877</i>
≤ 0.438	166/63	60.9	52.9 – 68.1	
0.438 – 0.638	166/60	62.0	53.9 – 69.2	
> 0.638	166/60	62.0	53.9 – 69.1	

N/E = Number of patients/events. EFS = Ten-year Event Free Survival, 95%CI: 95% confidence interval of EFS.

Table S17. Event Free Survival of 498 NB patients in relation to *LOC730811* expression levels by stage at diagnosis, evaluated by the Kaplan-Meier method.

Gene expression	N/E	EFS	95%CI	p
<i>Localised stage</i>				
Cut-off based on the median value				<i>0.689</i>
≤ 0.497	131/29	77.3	68.9 – 83.6	
> 0.497	131/26	79.6	71.5 – 85.6	
Cut-offs based on tertile values				<i>0.848</i>
≤ 0.424	87/18	79.1	68.9 – 86.3	
0.424 – 0.624	87/20	76.3	65.6 – 84.0	
> 0.624	88/17	80.2	70.1 – 87.2	
<i>Stage 4</i>				
Cut-off based on the median value				<i>0.906</i>
≤ 0.582	91/60	30.1	20.6 – 40.2	
> 0.582	92/55	35.6	25.4 – 45.9	
Cut-offs based on tertile values				<i>0.794</i>
≤ 0.511	59/39	30.2	18.7 – 42.5	
0.511 – 0.713	63/42	30.9	19.5 – 43.0	
> 0.713	61/34	38.5	25.5 – 51.3	
<i>Stage 4S</i>				
Cut-off based on the median value				<i>n.e.</i>
≤ 0.483	26/8	n.e.	n.e.	
> 0.483	27/5	n.e.	n.e.	
Cut-offs based on tertile values				<i>n.e.</i>
≤ 0.376	17/6	n.e.	n.e.	
0.376 – 0.566	18/3	n.e.	n.e.	
> 0.566	18/4	n.e.	n.e.	
<i>All patients</i>				
Cut-off based on the median value				<i>0.073</i>
≤ 0.535	248/82	65.5	59.0 – 71.2	
> 0.535	250/101	57.8	51.2 – 63.8	
Cut-offs based on tertile values				<i>0.877</i>
≤ 0.438	166/63	60.9	52.9 – 68.1	
0.438 – 0.638	166/60	62.0	53.9 – 69.2	
> 0.638	166/60	62.0	53.9 – 69.1	

N/E = Number of patients/events. EFS = Ten-year Event Free Survival, 95%CI: 95% confidence interval of EFS.

Table S18. Overall Survival of 786 NB patients in relation to *CMPK2* expression levels by *MYCN* status.

Gene expression	N/D	OS	95%CI	p
<i>MYCN normal</i>				
Cut-off based on the median value				<i>0.007</i>
≤ 1.863	314/46	85.2	80.6 – 88.8	
> 1.863	315/73	76.6	71.4 – 81.1	
Cut-offs based on tertile values				<i>0.003</i>
≤ 1.552	209/26	87.2	81.8 – 91.1	
1.552 – 2.231	210/42	80.6	74.5 – 85.4	
> 2.231	210/51	74.9	68.0 – 80.5	
<i>MYCN amplified</i>				
Cut-off based on the median value				<i>0.995</i>
≤ 1.954	76/54	29.0	19.3 – 39.3	
> 1.954	77/54	29.1	19.2 – 39.7	
Cut-offs based on tertile values				<i>0.330</i>
≤ 1.461	51/38	25.5	14.6 – 37.9	
1.461 – 2.320	51/36	29.4	17.7 – 42.1	
> 2.320	51/34	32.4	19.8 – 45.6	
<i>All patients</i>				
Cut-off based on the median value				<i>0.020</i>
≤ 1.877	393/99	74.7	70.0 – 78.7	
> 1.877	393/130	66.5	61.4 – 71.1	
Cut-offs based on tertile values				<i>0.047</i>
≤ 1.541	262/66	74.5	68.7 – 79.4	
1.541 – 2.250	262/74	72.2	66.3 – 77.3	
> 2.250	262/89	64.8	58.3 – 70.6	

N/D = Number of patients/ deaths. OS = Ten-year Overall Survival, 95%CI: 95% confidence interval of OS. N.e. = not evaluable

Table S19. Overall Survival of 786 NB patients in relation to *CMPK2* expression levels by stage at diagnosis, evaluated by the Kaplan-Meier method.

Gene expression	N/D	OS	95%CI	p
<i>Localised stage</i>				
Cut-off based on the median value				<i>0.413</i>
≤ 1.754	186/15	91.9	87.0 – 95.1	
> 1.754	187/20	89.2	83.8 – 92.9	
Cut-offs based on tertile values				<i>0.881</i>
≤ 1.396	124/12	90.3	83.6 – 94.4	
1.396 – 2.046	124/10	91.9	85.4 – 95.5	
> 2.046	125/13	89.5	82.7 – 93.8	
<i>Stage 4</i>				
Cut-off based on the median value				<i>0.019</i>
≤ 2.121	160/101	37.7	30.2 – 45.2	
> 2.121	160/82	47.0	38.5 – 55.0	
Cut-offs based on tertile values				<i>0.470</i>
≤ 1.783	106/64	39.9	30.4 – 49.2	
1.783 – 2.439	107/57	47.7	38.0 – 56.7	
> 2.439	107/62	38.8	28.3 – 49.1	
<i>Stage 4S</i>				
Cut-off based on the median value				<i>0.328</i>
≤ 1.735	46/4	90.4	76.0 – 96.3	
> 1.735	46/7	87.8	70.7 – 92.4	
Cut-offs based on tertile values				<i>n.e.</i>
≤ 1.408	30/3	n.e.	n.e.	.
1.408 – 2.097	31/2	n.e.	n.e.	
> 2.097	31/6	n.e.	n.e.	
<i>All patients</i>				
Cut-off based on the median value				<i>0.020</i>
≤ 1.877	393/99	74.7	70.0 – 78.7	
> 1.877	393/130	66.5	61.4 – 71.1	
Cut-offs based on tertile values				<i>0.047</i>
≤ 1.541	262/66	74.5	68.7 – 79.4	
1.541 – 2.250	262/74	72.2	66.3 – 77.3	
> 2.250	262/89	64.8	58.3 – 70.6	

N/D = Number of patients/ deaths. OS = Ten-year Overall Survival, 95%CI: 95% confidence interval of OS. n.e. = not evaluable

Table S20. Event Free Survival of 769 NB patients in relation to *CMPK2* expression levels by *MYCN* status.

Gene expression	N/E	EFS	95%CI	<i>p</i>
<i>MYCN normal</i>				
Cut-off based on the median value				<i>0.001</i>
≤ 1.863	308/83	73.3	68.0 – 77.9	
> 1.863	306/124	59.5	53.8 – 64.7	
Cut-offs based on tertile values				<i>0.003</i>
≤ 1.552	205/53	74.7	68.1 – 80.0	
1.552 – 2.231	206/69	66.5	59.6 – 72.5	
> 2.231	203/85	58.1	51.0 – 64.6	
<i>MYCN amplified</i>				
Cut-off based on the median value				<i>0.520</i>
≤ 1.954	76/58	22.9	14.0 – 33.2	
> 1.954	75/53	29.3	19.5 – 39.8	
Cut-offs based on tertile values				<i>0.185</i>
≤ 1.461	51/39	23.5	13.0 – 35.8	
1.461 – 2.320	50/38	22.8	11.9 – 35.7	
> 2.320	50/34	32.0	19.7 – 45.0	
<i>All patients</i>				
Cut-off based on the median value				<i>0.015</i>
≤ 1.877	387/141	63.7	58.6 – 68.3	
> 1.877	382/179	53.1	48.0 – 58.0	
Cut-offs based on tertile values				<i>0.042</i>
≤ 1.541	258/94	64.0	57.8 – 69.5	
1.541 – 2.250	258/105	59.1	52.8 – 64.8	
> 2.250	253/121	52.2	45.8 – 58.1	

N/E = Number of patients/events. EFS = Ten-year Event Free Survival, 95%CI: 95% confidence interval of EFS.

Table S21. Event Free Survival of 769 NB patients in relation to *CMPK2* expression levels by stage at diagnosis, evaluated by the Kaplan-Meier method.

Gene expression	N/E	EFS	95%CI	<i>p</i>
<i>Localised stage</i>				
Cut-off based on the median value				<i>0.685</i>
≤ 1.754	183/41	77.6	70.8 – 83.0	
> 1.754	181/45	75.1	68.2 – 80.8	
Cut-offs based on tertile values				<i>0.957</i>
≤ 1.396	121/31	74.4	65.6 – 81.2	
1.396 – 2.046	121/23	81.0	72.8 – 86.9	
> 2.046	122/32	73.8	65.0 – 80.7	
<i>Stage 4</i>				
Cut-off based on the median value				<i>0.110</i>
≤ 2.121	159/108	32.5	25.4 – 39.9	
> 2.121	155/98	36.8	29.2 – 44.3	
Cut-offs based on tertile values				<i>0.649</i>
≤ 1.783	105/68	36.2	27.1 – 45.3	
1.783 – 2.439	106/69	34.5	25.5 – 43.7	
> 2.439	103/69	33.0	24.2 – 42.1	
<i>Stage 4S</i>				
Cut-off based on the median value				<i>0.067</i>
≤ 1.735	46/10	78.3	63.3 – 87.7	
> 1.735	44/17	61.4	45.4 – 73.9	
Cut-offs based on tertile values				<i>0.080</i>
≤ 1.408	30/8	73.3	53.7 – 85.7	
1.408 – 2.097	30/5	83.3	64.5 – 92.7	
> 2.097	30/14	53.3	34.3 – 69.1	
<i>All patients</i>				
Cut-off based on the median value				<i>0.015</i>
≤ 1.877	387/141	63.7	58.6 – 68.3	
> 1.877	382/179	53.1	48.0 – 58.0	
Cut-offs based on tertile values				<i>0.042</i>
≤ 1.541	258/94	64.0	57.8 – 69.5	
1.541 – 2.250	258/105	59.1	52.8 – 64.8	
> 2.250	253/121	52.2	45.8 – 58.1	

N/E = Number of patients/events. EFS = Ten-year Event Free Survival, 95%CI: 95% confidence interval of EFS.

Table S22. Overall Survival of 786 NB patients in relation to *RSAD2* expression levels by *MYCN* status.

Gene expression	N/D	OS	95%CI	p
<i>MYCN normal</i>				
Cut-off based on the median value				0.477
≤ 1.662	314/56	82.0	77.1 – 86.0	
> 1.662	315/63	79.7	74.7 – 83.9	
Cut-offs based on tertile values				0.342
≤ 1.256	209/39	81.6	75.3 – 86.4	
1.256 – 2.094	210/33	83.8	77.9 – 88.2	
> 2.094	210/47	77.3	70.7 – 82.5	
<i>MYCN amplified</i>				
Cut-off based on the median value				0.720
≤ 1.492	76/52	31.6	21.5 – 42.1	
> 1.492	77/56	26.7	17.2 – 37.1	
Cut-offs based on tertile values				0.762
≤ 0.923	51/35	31.4	19.3 – 44.2	
0.923 – 2.258	51/36	29.4	17.7 – 42.1	
> 2.258	51/37	26.5	15.0 – 39.4	
<i>All patients</i>				
Cut-off based on the median value				0.510
≤ 1.655	393/110	71.9	67.0 – 76.2	
> 1.655	393/119	69.2	64.3 – 73.7	
Cut-offs based on tertile values				0.517
≤ 1.193	262/80	69.7	63.5 – 75.0	
1.193 – 2.144	262/61	76.3	70.5 – 81.0	
> 2.144	262/88	65.7	59.4 – 71.3	

N/D = Number of patients/ deaths. OS = Ten-year Overall Survival, 95%CI: 95% confidence interval of OS. N.e. = not evaluable

Table S23. Overall Survival of 786 NB patients in relation to *RSAD2* expression levels by stage at diagnosis, evaluated by the Kaplan-Meier method.

Gene expression	N/D	OS	95%CI	<i>p</i>
<i>Localised stage</i>				
Cut-off based on the median value				<i>0.195</i>
≤ 1.482	186/21	88.7	83.1 – 92.5	
> 1.482	187/14	92.5	87.6 – 95.5	
Cut-offs based on tertile values				<i>0.113</i>
≤ 1.164	124/17	86.3	78.9 – 91.2	
1.164 – 1.876	124/8	93.5	87.4 – 96.7	
> 1.876	125/10	91.9	85.5 – 95.6	
<i>Stage 4</i>				
Cut-off based on the median value				<i>0.141</i>
≤ 1.969	160/98	39.0	31.1 – 46.7	
> 1.969	160/85	45.7	37.3 – 53.6	
Cut-offs based on tertile values				<i>0.400</i>
≤ 1.295	106/66	38.4	28.8 – 47.9	
1.295 – 2.374	107/56	47.8	37.9 – 57.1	
> 2.374	107/61	40.8	30.8 – 50.5	
<i>Stage 4S</i>				
Cut-off based on the median value				<i>0.740</i>
≤ 1.474	46/5	88.3	73.8 – 95.0	
> 1.474	46/6	87.0	73.3 – 93.9	
Cut-offs based on tertile values				<i>n.e.</i>
≤ 1.014	30/4	n.e.	n.e.	
1.014 – 1.838	31/2	n.e.	n.e.	
> 1.838	31/5	n.e.	n.e.	
<i>All patients</i>				
Cut-off based on the median value				<i>0.510</i>
≤ 1.655	393/110	71.9	67.0 – 76.2	
> 1.655	393/119	69.2	64.3 – 73.7	
Cut-offs based on tertile values				<i>0.517</i>
≤ 1.193	262/80	69.7	63.5 – 75.0	
1.193 – 2.144	262/61	76.3	70.5 – 81.0	
> 2.144	262/88	65.7	59.4 – 71.3	

N/D = Number of patients/ deaths. OS = Ten-year Overall Survival, 95%CI: 95% confidence interval of OS. N.e. = not evaluable

Table S24. Event Free Survival of 769 NB patients in relation to *RSAD2* expression levels by *MYCN* status.

Gene expression	N/E	EFS	95%CI	<i>p</i>
<i>MYCN normal</i>				
Cut-off based on the median value				0.915
≤ 1.662	304/100	67.4	61.8 – 72.4	
> 1.662	310/107	65.5	59.9 – 70.5	
Cut-offs based on tertile values				0.521
≤ 1.256	201/68	66.7	59.7 – 72.7	
1.256 – 2.094	205/59	71.2	64.4 – 76.8	
> 2.094	208/80	61.5	54.6 – 67.8	
<i>MYCN amplified</i>				
Cut-off based on the median value				0.975
≤ 1.492	75/55	25.7	16.1 – 36.3	
> 1.492	76/56	26.3	17.0 – 36.5	
Cut-offs based on tertile values				0.959
≤ 0.923	50/36	28.0	16.5 – 40.8	
0.923 – 2.258	51/39	21.9	11.1 – 34.9	
> 2.258	50/36	28.0	16.5 – 40.8	
<i>All patients</i>				
Cut-off based on the median value				0.925
≤ 1.655	382/157	59.0	53.9 – 63.8	
> 1.655	387/163	57.9	52.8 – 62.6	
Cut-offs based on tertile values				0.891
≤ 1.193	253/110	56.9	50.6 – 62.8	
1.193 – 2.144	257/91	64.3	58.1 – 69.9	
> 2.144	259/119	54.1	47.8 – 59.9	

N/E = Number of patients/events. EFS = Ten-year Event Free Survival, 95%CI: 95% confidence interval of EFS.

Table S25. Event Free Survival of 769 NB patients in relation to *RSAD2* expression levels by stage at diagnosis, evaluated by the Kaplan-Meier method.

Gene expression	N/E	EFS	95%CI	<i>p</i>
<i>Localised stage</i>				
Cut-off based on the median value				<i>0.020</i>
≤ 1.482	181/52	71.3	64.1 – 77.3	
> 1.482	183/34	81.4	75.0 – 86.4	
Cut-offs based on tertile values				<i>0.012</i>
≤ 1.164	119/38	68.1	58.9 – 75.6	
1.164 – 1.876	123/25	79.7	71.4 – 85.8	
> 1.876	122/23	81.2	73.0 – 87.1	
<i>Stage 4</i>				
Cut-off based on the median value				<i>0.235</i>
≤ 1.969	155/105	32.8	25.5 – 40.2	
> 1.969	159/101	36.5	29.1 – 43.9	
Cut-offs based on tertile values				<i>0.741</i>
≤ 1.295	102/69	33.3	24.4 – 42.5	
1.295 – 2.374	106/64	39.4	30.1 – 48.6	
> 2.374	106/73	31.1	22.6 – 40.0	
<i>Stage 4S</i>				
Cut-off based on the median value				<i>0.416</i>
≤ 1.474	46/12	73.9	58.7 – 84.3	
> 1.474	44/15	65.9	50.0 – 77.9	
Cut-offs based on tertile values				<i>0.521</i>
≤ 1.014	30/9	70.0	50.3 – 83.1	
1.014 – 1.838	29/6	79.3	59.6 – 90.1	
> 1.838	31/12	61.3	42.0 – 75.9	
<i>All patients</i>				
Cut-off based on the median value				<i>0.925</i>
≤ 1.655	382/157	59.0	53.9 – 63.8	
> 1.655	387/163	57.9	52.8 – 62.6	
Cut-offs based on tertile values				<i>0.891</i>
≤ 1.193	253/110	56.9	50.6 – 62.8	
1.193 – 2.144	257/91	64.3	58.1 – 69.9	
> 2.144	259/119	54.1	47.8 – 59.9	

N/E = Number of patients/events. EFS = Ten-year Event Free Survival, 95%CI: 95% confidence interval of EFS.

Table S26. Association between *LOC339788* expression levels by outcome and main patient characteristics at diagnosis.

Patient characteristics	LOC339788 Expression Levels				<i>p</i>
	≤ 0.01436		> 0.01436		
	N	%	N	%	
Event					0.291
No	239	64.6	76	59.4	
Yes	131	35.4	52	40.6	
Dead					0.613
No	294	79.5	99	77.3	
Yes	76	20.5	29	22.7	
Event - MYCN Not amplified					0.630
No	217	70.7	64	68.1	
Yes	90	29.3	30	31.9	
Event - MYCN Amplified					0.952
No	21	35.0	11	34.4	
Yes	39	65.0	21	65.6	
Dead - MYCN Not amplified					0.620
No	265	86.3	83	88.3	
Yes	42	13.7	11	11.7	
Dead - MYCN Amplified					0.909
No	27	45.0	14	43.8	
Yes	33	55.0	18	56.2	
Event - Age < 18 months					0.045
No	182	80.5	55	69.6	
Yes	44	19.5	24	30.4	
Event - Age ≥ 18 months					0.687
No	57	39.6	21	42.9	
Yes	87	60.4	28	57.1	
Dead - Age < 18 months					0.137
No	214	94.7	71	89.9	
Yes	12	5.3	8	10.1	
Dead - Age ≥ 18 months					0.847
No	80	55.6	28	57.1	
Yes	64	44.4	21	42.9	
Event – Localized stage					0.039
No	160	82.1	47	70.2	
Yes	35	17.9	20	29.8	
Event – Stage 4					0.629
No	53	38.1	15	34.1	
Yes	86	61.9	29	65.9	
Event – Stage 4S					0.511
No	26	72.2	14	82.4	
Yes	10	27.8	3	17.6	
Dead – Localized stage					0.086
No	184	94.4	59	88.1	
Yes	11	5.6	8	11.9	
Dead – Stage 4					0.921
No	77	55.4	24	54.6	
Yes	62	44.6	20	45.4	
Dead – Stage 4S					0.999
No	33	91.7	16	94.1	
Yes	3	8.3	1	5.9	

Table S27. Overall Survival of 498 NB patients in relation to *LOC339788* expression levels by *MYCN* status.

Gene expression	N/D	OS	95%CI	<i>p</i>
<i>MYCN normal</i>				
Cut-off				0.593
≤ 0.01436	307/42	83.8	78.3 – 88.0	
> 0.01436	94/11	87.2	78.0 – 92.7	
<i>MYCN amplified</i>				
Cut-off				0.870
≤ 0.01436	60/33	35.7	22.0 – 49.6	
> 0.01436	32/18	39.0	21.6 – 56.0	
<i>All patients</i>				
Cut-off				0.604
≤ 0.01436	370/76	76.5	71.1 – 81.0	
> 0.01436	128/29	75.7	66.8 – 82.4	

N/D = Number of patients/ deaths. OS = Ten-year Overall Survival, 95%CI: 95% confidence interval of OS. n.e. = not evaluable. Cut-off = cut-off corresponding to the baseline expression value.

Table S28. Overall Survival of 498 NB patients in relation to *LOC339788* expression levels by stage at diagnosis, evaluated by the Kaplan-Meier method.

Gene expression	N/D	OS	95%CI	<i>p</i>
<i>Localised stage</i>				
Cut-off				0.095
≤ 0.01436	195/11	93.5	88.4 – 96.4	
> 0.01436	67/8	87.2	76.0 – 93.4	
<i>Stage 4</i>				
Cut-off				0.789
≤ 0.01436	139/62	47.4	37.1 – 57.0	
> 0.01436	44/20	48.4	31.9 – 63.1	
<i>Stage 4S</i>				
Cut-off				n.e.
≤ 0.01436	36/3	n.e.	n.e.	
> 0.01436	17/1	n.e.	n.e.	
<i>All patients</i>				
Cut-off				0.604
≤ 0.01436	370/76	76.5	71.1 – 81.0	
> 0.01436	128/29	75.7	66.8 – 82.4	

N/D = Number of patients/ deaths. OS = Ten-year Overall Survival, 95%CI: 95% confidence interval of OS. n.e. = not evaluable. Cut-off = cut-off corresponding to the baseline expression value.

Table S29. Event Free Survival of 498 NB patients in relation to *LOC339788* expression levels by *MYCN* status.

Gene expression	N/E	EFS	95%CI	p
<i>MYCN normal</i>				
Cut-off				0.572
≤ 0.01436	307/90	69.5	63.9 – 74.5	
> 0.01436	94/30	66.4	55.5 – 75.2	
<i>MYCN amplified</i>				
Cut-off				0.860
≤ 0.01436	60/39	27.5	15.9 – 40.4	
> 0.01436	32/21	32.3	16.9 – 48.6	
<i>All patients</i>				
Cut-off				0.253
≤ 0.01436	370/131	63.0	57.7 – 67.9	
> 0.01436	128/52	57.5	48.2 – 65.8	

N/E = Number of patients/ events. EFS = Ten-year Event Free Survival, 95%CI: 95% confidence interval of EFS. n.e. = not evaluable. Cut-off = cut-off corresponding to the baseline expression value.

Table S30. Event Free Survival of 498 NB patients in relation to *LOC339788* expression levels by stage at diagnosis, evaluated by the Kaplan-Meier method.

Gene expression	N/E	EFS	95%CI	p
<i>Localised stage</i>				
Cut-off				0.036
≤ 0.01436	195/35	81.6	75.3 – 86.4	
> 0.01436	67/20	69.6	56.9 – 79.2	
<i>Stage 4</i>				
Cut-off				0.423
≤ 0.01436	139/86	34.0	25.7 – 42.4	
> 0.01436	44/29	26.8	14.1 – 41.4	
<i>Stage 4S</i>				
Cut-off				0.420
≤ 0.01436	36/10	71.4	53.3 – 83.5	
> 0.01436	17/3	82.4	54.7 – 93.9	
<i>All patients</i>				
Cut-off				0.253
≤ 0.01436	370/131	63.0	57.7 – 67.9	
> 0.01436	128/52	57.5	48.2 – 65.8	

N/E = Number of patients/ events. OS = Ten-year Overall Survival, 95%CI: 95% confidence interval of OS. n.e. = not evaluable. Cut-off = cut-off corresponding to the based on the baseline expression value.

Table S31. Overall Survival of 786 NB patients in relation to *GREB1* expression levels by *MYCN* status.

Gene expression	N/D	OS	95%CI	<i>p</i>
<i>MYCN normal</i>				
Cut-off based on the median value				<i>0.004</i>
≤ 3.994	314/74	75.5	70.1 – 80.0	
> 3.994	315/45	86.2	81.7 – 89.7	
Cut-offs based on tertile values				<i>< 0.001</i>
≤ 3.747	209/59	70.7	63.7 – 76.6	
3.747 – 4.259	210/32	84.9	79.2 – 89.2	
≤ 4.259	210/28	86.9	81.2 – 91.0	
<i>MYCN amplified</i>				
Cut-off based on the median value				<i>0.835</i>
≤ 4.204	76/53	29.2	19.0 – 40.0	
> 4.204	77/55	28.6	19.0 – 38.9	
Cut-offs based on tertile values				<i>0.991</i>
≤ 3.981	51/36	31.4	19.3 – 44.2	
3.981 – 4.463	51/36	29.4	17.7 – 42.1	
≤ 4.463	51/36	29.4	17.7 – 42.1	
<i>All patients</i>				
Cut-off based on the median value				<i>0.811</i>
≤ 4.029	393/114	70.1	65.2 – 74.5	
> 4.029	393/115	71.0	66.1 – 75.3	
Cut-offs based on tertile values				<i>0.400</i>
≤ 3.791	262/89	65.0	58.6 – 70.6	
3.791 – 4.311	262/62	76.5	70.8 – 81.2	
> 4.311	262/78	70.2	64.1 – 75.5	

N/D = Number of patients/ deaths. OS = Ten-year Overall Survival, 95%CI: 95% confidence interval of OS. N.e. = not evaluable.

Table S32. Overall Survival of 786 NB patients in relation to *GREB1* expression levels by stage at diagnosis, evaluated by the Kaplan-Meier method.

Gene expression	N/D	OS	95%CI	p
<i>Localised stage</i>				
Cut-off based on the median value				0.226
≤ 4.059	186/21	88.6	83.1 – 92.4	
> 4.059	187/14	92.5	87.7 – 95.5	
Cut-offs based on tertile values				0.032
≤ 3.831	124/18	85.4	77.8 – 90.5	
3.831 – 3.831	124/9	92.7	86.5 – 96.2	
> 3.831	125/8	93.6	87.6 – 96.8	
<i>Stage 4</i>				
Cut-off based on the median value				0.191
≤ 3.990	160/87	43.6	35.3 – 51.5	
> 3.990	160/96	41.1	33.3 – 48.8	
Cut-offs based on tertile values				0.207
≤ 3.625	106/60	41.2	31.2 – 51.0	
3.625 – 4.277	107/55	48.4	38.4 – 57.8	
> 4.277	107/68	37.4	28.1 – 46.7	
<i>Stage 4S</i>				
Cut-off based on the median value				0.798
≤ 4.203	46/5	89.1	75.8 – 95.3	
> 4.203	46/6	86.3	71.7 – 93.6	
Cut-offs based on tertile values				<i>n.e.</i>
≤ 3.877	30/2	<i>n.e.</i>	<i>n.e.</i>	
3.877 – 4.391	31/4	<i>n.e.</i>	<i>n.e.</i>	
> 4.391	31/5	<i>n.e.</i>	<i>n.e.</i>	
<i>All patients</i>				
Cut-off based on the median value				0.811
≤ 4.029	393/114	70.1	65.2 – 74.5	
> 4.029	393/115	71.0	66.1 – 75.3	
Cut-offs based on tertile values				0.400
≤ 3.791	262/89	65.0	58.6 – 70.6	
3.791 – 4.311	262/62	76.5	70.8 – 81.2	
> 4.311	262/78	70.2	64.1 – 75.5	

N/D = Number of patients/ deaths. OS = Ten-year Overall Survival, 95%CI: 95% confidence interval of OS. N.e. = not evaluable

Table S33. Event Free Survival of 769 NB patients in relation to *GREB1* expression levels by *MYCN* status.

Gene expression	N/E	OS	95%CI	p
<i>MYCN normal</i>				
Cut-off based on the median value				0.017
≤ 3.994	306/119	61.1	55.4 – 66.3	
> 3.994	308/88	71.8	66.4 – 76.4	
Cut-offs based on tertile values				< 0.001
≤ 3.747	202/97	51.9	44.8 – 58.6	
3.747 – 4.259	207/54	73.9	67.4 – 79.4	
> 4.259	205/56	73.2	66.5 – 78.7	
<i>MYCN amplified</i>				
Cut-off based on the median value				0.551
≤ 4.204	75/56	24.0	14.6 – 34.8	
> 4.204	76/55	27.6	18.2 – 37.9	
Cut-offs based on tertile values				0.907
≤ 3.981	50/37	26.0	14.9 – 38.6	
3.981 – 4.463	50/37	24.5	13.1 – 37.7	
> 4.463	51/37	27.5	16.1 – 40.0	
<i>All patients</i>				
Cut-off based on the median value				0.398
≤ 4.029	384/167	56.3	51.2 – 61.2	
> 4.029	385/153	60.5	55.5 – 65.2	
Cut-offs based on tertile values				0.049
≤ 3.791	253/127	49.8	43.5 – 55.7	
3.791 – 4.311	260/91	65.2	59.0 – 70.7	
> 4.311	256/102	60.2	53.9 – 65.9	

N/E = Number of patients/ events. EFS = Ten-year Event Free Survival, 95%CI: 95% confidence interval of EFS.
n.e. = not evaluable.

Table S34. Event Free Survival of 769 NB patients in relation to *GREB1* expression levels by stage at diagnosis, evaluated by the Kaplan-Meier method.

Gene expression	N/E	EFS	95%CI	p
<i>Localised stage</i>				
Cut-off based on the median value				0.270
≤ 4.086	182/48	73.6	66.6 – 79.4	
> 4.086	182/38	79.1	72.4 – 84.3	
Cut-offs based on tertile values				0.050
≤ 3.831	120/38	68.3	59.2 – 75.8	
3.831 – 4.311	122/24	80.3	72.1 – 86.4	
> 4.311	122/24	80.3	72.1 – 86.4	
<i>Stage 4</i>				
Cut-off based on the median value				0.758
≤ 3.990	157/103	34.4	27.1 – 41.8	
> 3.990	157/103	34.8	27.4 – 42.3	
Cut-offs based on tertile values				0.719
≤ 3.625	103/74	28.2	19.9 – 37.0	
3.625 – 4.277	107/62	41.7	32.2 – 50.9	
> 4.277	104/70	33.7	24.8 – 42.7	
<i>Stage 4S</i>				
Cut-off based on the median value				0.962
≤ 4.203	44/13	70.5	54.6 – 81.7	
> 4.203	46/14	69.6	54.1 – 80.7	
Cut-offs based on tertile values				0.724
≤ 3.877	28/7	75.0	54.6 – 87.2	
3.877 – 4.391	31/11	64.5	45.2 – 78.5	
> 4.391	31/9	71.0	51.6 – 83.7	
<i>All patients</i>				
Cut-off based on the median value				0.398
≤ 4.029	384/167	56.3	51.2 – 61.2	
> 4.029	385/153	60.5	55.5 – 65.2	
Cut-offs based on tertile values				0.049
≤ 3.791	253/127	49.8	43.5 – 55.7	
3.791 – 4.311	260/91	65.2	59.0 – 70.7	
> 4.311	256/102	60.2	53.9 – 65.9	

N/E = Number of patients/events. EFS = Ten-year Event Free Survival, 95%CI: 95% confidence interval of EFS.

Table S35. Overall Survival of 709 NB patients in relation to *NTSR2* expression levels by *MYCN* status.

Gene expression	N/D	OS	95%CI	p
<i>MYCN normal</i>				
Cut-off based on the median value				0.098
≤ -0.917	290/47	80.8	74.9 – 85.5	
> -0.917	291/36	86.2	80.9 – 90.1	
Cut-offs based on tertile values				0.464
≤ -1.255	193/31	79.8	71.9 – 85.7	
-1.255 – -0.599	194/23	87.1	80.8 – 91.4	
≤ -0.599	194/29	83.5	76.4 – 88.6	
<i>MYCN amplified</i>				
Cut-off based on the median value				0.973
≤ -1.176	61/37	33.9	21.4 – 46.8	
> -1.176	61/39	34.0	22.2 – 46.1	
Cut-offs based on tertile values				0.757
≤ -1.724	40/23	34.5	18.7 – 50.9	
-1.724 – -0.643	41/26	35.2	20.9 – 49.7	
≤ -0.643	41/27	32.6	18.6 – 47.3	
<i>All patients</i>				
Cut-off based on the median value				0.033
≤ -0.944	354/90	71.0	65.2 – 76.0	
> -0.944	355/71	78.4	73.2 – 82.7	
Cut-offs based on tertile values				0.196
≤ -1.303	236/62	69.0	61.5 – 75.3	
-1.303 – -0.594	236/44	79.7	73.4 – 84.7	
> -0.594	237/55	75.2	68.5 – 80.7	

N/D = Number of patients/ deaths. OS = Ten-year Overall Survival, 95%CI: 95% confidence interval of OS. N.e. = not evaluable.

Table S36. Overall Survival of 709 NB patients in relation to *NTSR2* expression levels by stage at diagnosis, evaluated by the Kaplan-Meier method.

Gene expression	N/D	OS	95%CI	p
<i>Localised stage</i>				
Cut-off based on the median value				<i>0.098</i>
≤ -0.870	185/17	89.3	83.2 – 93.3	
> -0.870	185/9	94.7	90.0 – 97.2	
Cut-offs based on tertile values				<i>0.036</i>
≤ -1.208	123/14	86.2	77.5 – 91.7	
-1.208 – -0.545	123/6	94.4	87.9 – 97.5	
> -0.545	124/6	95.0	89.2 – 97.7	
<i>Stage 4</i>				
Cut-off based on the median value				<i>0.361</i>
≤ -1.035	129/64	44.2	33.9 – 54.1	
> -1.035	130/65	48.5	39.0 – 57.4	
Cut-offs based on tertile values				<i>0.379</i>
≤ -1.363	86/44	41.5	28.8 – 53.7	
-1.363 – -0.558	86/40	50.6	38.4 – 61.6	
> -0.558	87/45	47.3	35.7 – 58.1	
<i>Stage 4S</i>				
Cut-off based on the median value				<i>n.e.</i>
≤ -1.075	40/3	n.e.	n.e.	
> -1.075	40/3	n.e.	n.e.	
Cut-offs based on tertile values				<i>n.e.</i>
≤ -1.526	26/1	n.e.	n.e.	
-1.526 – 0.870	27/3	n.e.	n.e.	
> -0.870	27/2	n.e.	n.e.	
<i>All patients</i>				
Cut-off based on the median value				<i>0.033</i>
≤ -0.944	354/90	71.0	65.2 – 76.0	
> -0.944	355/71	78.4	73.2 – 82.7	
Cut-offs based on tertile values				<i>0.196</i>
≤ -1.303	236/62	69.0	61.5 – 75.3	
-1.303 – -0.594	236/44	79.7	73.4 – 84.7	
> -0.594	237/55	75.2	68.5 – 80.7	

N/D = Number of patients/ deaths. OS = Ten-year Overall Survival, 95%CI: 95% confidence interval of OS. N.e. = not evaluable

Table S37. Event Free Survival of 695 NB patients in relation to *NTSR2* expression levels by *MYCN* status.

Gene expression	N/E	EFS	95%CI	p
<i>MYCN normal</i>				
Cut-off based on the median value				0.095
≤ -0.917	286/92	66.4	60.4 – 71.7	
> -0.917	282/76	72.2	66.2 – 77.4	
Cut-offs based on tertile values				0.157
≤ -1.255	189/61	66.3	58.8 – 72.7	
-1.255 – -0.599	193/55	70.7	63.5 – 76.7	
> -0.599	186/52	71.1	63.3 – 77.5	
<i>MYCN amplified</i>				
Cut-off based on the median value				0.623
≤ -1.176	60/43	25.7	15.2 – 37.6	
> -1.176	61/41	29.9	18.3 – 42.3	
Cut-offs based on tertile values				0.993
≤ -1.724	39/26	29.2	15.3 – 44.5	
-1.724 – -0.643	41/30	25.2	13.1 – 39.3	
> -0.643	41/28	29.7	16.1 – 44.6	
<i>All patients</i>				
Cut-off based on the median value				0.066
≤ -0.944	349/138	58.8	53.3 – 64.0	
> -0.944	346/118	64.8	59.2 – 69.8	
Cut-offs based on tertile values				0.056
≤ -1.303	231/96	56.6	49.7 – 62.9	
-1.303 – 0.594	235/79	65.6	59.0 – 71.3	
> -0.594	229/81	63.3	56.1 – 69.6	

N/E = Number of patients/ events. OS = Ten-year Overall Survival, 95%CI: 95% confidence interval of OS. N.e. = not evaluable.

Table S38. Event Free Survival of 695 NB patients in relation to *NTSR2* expression levels by stage at diagnosis, evaluated by the Kaplan-Meier method.

Gene expression	N/E	EFS	95%CI	<i>p</i>
<i>Localised stage</i>				
Cut-off based on the median value				<i>0.003</i>
≤ -0.870	180/49	72.3	65.1 – 78.3	
> -0.870	179/27	84.4	78.1 – 89.1	
Cut-offs based on tertile values				<i>0.038</i>
≤ -1.208	119/32	72.2	63.0 – 79.5	
-1.208 – -0.545	122/25	79.3	70.9 – 85.5	
> -0.545	118/19	83.5	75.3 – 89.1	
<i>Stage 4</i>				
Cut-off based on the median value				<i>0.400</i>
≤ -1.035	129/81	34.5	26.1 – 43.0	
> -1.035	129/82	35.8	27.1 – 44.6	
Cut-offs based on tertile values				<i>0.598</i>
≤ -1.363	86/54	34.2	23.9 – 44.6	
-1.363 – -0.558	86/52	38.8	28.5 – 49.0	
> -0.558	86/57	32.4	21.7 – 43.6	
<i>Stage 4S</i>				
Cut-off based on the median value				<i>0.750</i>
≤ -1.075	39/9	76.3	59.4 – 86.9	
> -1.075	39/8	78.9	62.1 – 88.9	
Cut-offs based on tertile values				<i>0.931</i>
≤ -1.526	25/4	83.2	61.1 – 93.4	
-1.526 – 0.870	27/9	64.5	42.1 – 80.1	
> -0.870	26/4	84.6	64.0 – 93.9	
<i>All patients</i>				
Cut-off based on the median value				<i>0.066</i>
≤ -0.944	349/138	58.8	53.3 – 64.0	
> -0.944	346/118	64.8	59.2 – 69.8	
Cut-offs based on tertile values				<i>0.056</i>
≤ -1.303	231/96	56.6	49.7 – 62.9	
-1.303 – 0.594	235/79	65.6	59.0 – 71.3	
> -0.594	229/81	63.3	56.1 – 69.6	

N/E = Number of patients/events. EFS = Ten-year Event Free Survival, 95%CI: 95% confidence interval of EFS.

Table S39. Overall Survival of 786 NB patients in relation to *LPIN1* expression levels by *MYCN* status.

Gene expression	N/D	OS	95%CI	p
<i>MYCN normal</i>				
Cut-off based on the median value				< 0.001
≤ 4.340	314/87	71.8	66.3 – 76.6	
> 4.340	315/32	90.1	86.1 – 92.9	
Cut-offs based on tertile values				< 0.001
≤ 4.136	209/70	66.1	59.0 – 72.3	
4.136 – 4.537	210/31	85.0	79.4 – 89.2	
> 4.537	210/18	91.9	87.3 – 94.9	
<i>MYCN amplified</i>				
Cut-off based on the median value				0.541
≤ 4.180	76/51	32.1	21.7 – 42.9	
> 4.180	77/57	26.0	16.8 – 36.1	
Cut-offs based on tertile values				0.799
≤ 3.974	51/39	25.5	14.6 – 37.9	
3.974 – 4.368	51/30	41.2	27.7 – 54.2	
≤ 4.368	51/39	23.5	13.0 – 35.8	
<i>All patients</i>				
Cut-off based on the median value				< 0.001
≤ 4.313	393/149	61.5	56.4 – 66.3	
> 4.313	393/80	79.7	75.3 – 83.4	
Cut-offs based on tertile values				< 0.001
≤ 4.102	262/113	56.2	49.7 – 62.2	
4.102 – 4.512	262/67	74.2	68.5 – 79.1	
> 4.512	262/49	81.5	76.2 – 85.7	

N/D = Number of patients/ deaths. OS = Ten-year Overall Survival, 95%CI: 95% confidence interval of OS. N.e. = not evaluable.

Table S40. Overall Survival of 786 NB patients in relation to *LPIN1* expression levels by stage at diagnosis, evaluated by the Kaplan-Meier method.

Gene expression	N/D	OS	95%CI	<i>p</i>
<i>Localised stage</i>				
Cut-off based on the median value				< 0.001
≤ 4.410	186/29	84.3	78.2 – 88.8	
> 4.410	187/6	96.8	93.0 – 98.6	
Cut-offs based on tertile values				< 0.001
≤ 4.216	124/26	78.9	70.5 – 85.1	
4.216 – 4.599	124/4	96.8	91.6 – 98.8	
> 4.599	125/5	96.0	90.7 – 98.3	
<i>Stage 4</i>				
Cut-off based on the median value				0.934
≤ 4.150	160/93	40.3	32.0 – 48.5	
> 4.150	160/90	44.2	36.3 – 51.7	
Cut-offs based on tertile values				0.214
≤ 3.928	106/69	32.2	22.7 – 42.2	
3.928 – 4.350	107/55	49.5	39.8 – 58.6	
> 4.350	107/59	45.6	35.9 – 54.7	
<i>Stage 4S</i>				
Cut-off based on the median value				0.687
≤ 4.402	46/6	87.0	73.3 – 93.9	
> 4.402	46/5	88.4	74.0 – 95.0	
Cut-offs based on tertile values				0.588
≤ 4.257	30/4	86.7	68.3 – 94.8	
4.257 – 4.574	31/4	84.3	61.7 – 94.1	
> 4.574	31/3	90.3	72.9 – 96.8	
<i>All patients</i>				
Cut-off based on the median value				< 0.001
≤ 4.313	393/149	61.5	56.4 – 66.3	
> 4.313	393/80	79.7	75.3 – 83.4	
Cut-offs based on tertile values				< 0.001
≤ 4.102	262/113	56.2	49.7 – 62.2	
4.102 – 4.512	262/67	74.2	68.5 – 79.1	
> 4.512	262/49	81.5	76.2 – 85.7	

N/D = Number of patients/deaths. OS = Ten-year Overall Survival, 95%CI: 95% confidence interval of OS. N.e. = not evaluable.

Table S41. Event Free Survival of 769 NB patients in relation to *LPIN1* expression levels by *MYCN* status.

Gene expression	N/E	OS	95%CI	p
<i>MYCN normal</i>				
Cut-off based on the median value				< 0.001
≤ 4.340	299/127	57.8	52.0 – 63.2	
> 4.340	315/80	74.6	69.4 – 79.1	
Cut-offs based on tertile values				< 0.001
≤ 4.136	194/96	51.0	43.7 – 57.8	
4.136 – 4.537	210/60	71.4	64.8 – 77.0	
≤ 4.537	210/51	75.7	69.3 – 81.0	
<i>MYCN amplified</i>				
Cut-off based on the median value				0.374
≤ 4.180	74/51	31.1	21.0 – 41.7	
> 4.180	77/60	20.8	12.1 – 31.1	
Cut-offs based on tertile values				0.823
≤ 3.974	49/38	22.5	12.1 – 34.8	
3.974 – 4.368	51/33	33.5	20.3 – 47.3	
≤ 4.368	51/40	21.6	11.6 – 33.6	
<i>All patients</i>				
Cut-off based on the median value				< 0.001
≤ 4.313	376/189	49.8	44.7 – 54.8	
> 4.313	393/131	66.7	61.8 – 71.1	
Cut-offs based on tertile values				< 0.001
≤ 4.102	245/135	45.3	39.0 – 51.4	
4.102 – 4.512	262/98	62.3	56.1 – 67.9	
> 4.512	262/87	66.8	60.7 – 72.1	

N/E = Number of patients/ events. EFS = Ten-year Event Free Survival, 95%CI: 95% confidence interval of EFS.
n.e. = not evaluable.

Table S42. Event Free Survival of 769 NB patients in relation to *LPIN1* expression levels by stage at diagnosis, evaluated by the Kaplan-Meier method.

Gene expression	N/E	EFS	95%CI	p
<i>Localised stage</i>				
Cut-off based on the median value				0.066
≤ 4.410	177/50	71.8	64.5 – 77.8	
> 4.410	187/36	80.8	74.3 – 85.7	
Cut-offs based on tertile values				0.009
≤ 4.216	115/38	67.0	57.6 – 74.7	
4.216 – 4.599	124/26	79.0	70.8 – 85.2	
> 4.599	125/22	82.4	74.5 – 88.0	
<i>Stage 4</i>				
Cut-off based on the median value				0.829
≤ 4.150	154/103	33.8	26.4 – 41.2	
> 4.150	160/103	35.3	28.0 – 42.8	
Cut-offs based on tertile values				0.175
≤ 3.928	100/73	27.7	18.7 – 35.9	
3.928 – 4.350	107/65	39.6	30.2 – 48.9	
> 4.350	107/68	36.5	27.4 – 45.5	
<i>Stage 4S</i>				
Cut-off based on the median value				0.337
≤ 4.402	44/15	65.9	50.0 – 77.9	
> 4.402	46/12	73.9	58.7 – 84.3	
Cut-offs based on tertile values				0.070
≤ 4.257	28/11	60.7	40.4 – 76.0	
4.257 – 4.574	31/10	67.7	48.4 – 81.2	
> 4.574	31/6	80.7	61.9 – 90.8	
<i>All patients</i>				
Cut-off based on the median value				< 0.001
≤ 4.313	376/189	49.8	44.7 – 54.8	
> 4.313	393/131	66.7	61.8 – 71.1	
Cut-offs based on tertile values				< 0.001
≤ 4.102	245/135	45.3	39.0 – 51.4	
4.102 – 4.512	262/98	62.3	56.1 – 67.9	
> 4.512	262/87	66.8	60.7 – 72.1	

N/E = Number of patients/events. EFS = Ten-year Event Free Survival, 95%CI: 95% confidence interval of EFS.

Table S43. Overall Survival of 786 NB patients in relation to *NBAS* expression levels by *MYCN* status.

Gene expression	N/D	OS	95%CI	<i>p</i>
<i>MYCN normal</i>				
Cut-off based on the median value				0.709
≤ 3.275	314/58	81.3	76.2 – 85.3	
> 3.275	315/61	80.6	75.7 – 84.6	
Cut-offs based on tertile values				0.438
≤ 3.065	209/43	78.8	72.3 – 84.0	
3.065 – 3.518	210/40	80.7	74.5 – 85.6	
≤ 3.518	210/36	83.3	77.6 – 87.7	
<i>MYCN amplified</i>				
Cut-off based on the median value				0.154
≤ 3.798	76/50	33.2	22.5 – 44.2	
> 3.798	77/58	24.7	15.7 – 34.7	
Cut-offs based on tertile values				0.361
≤ 3.129	51/30	41.2	27.7 – 54.2	
3.129 – 4.487	51/42	17.2	8.2 – 28.8	
≤ 4.487	51/36	29.4	17.7 – 42.1	
<i>All patients</i>				
Cut-off based on the median value				0.010
≤ 3.311	393/99	74.4	69.5 – 78.5	
> 3.311	393/130	66.8	61.9 – 71.3	
Cut-offs based on tertile values				0.007
≤ 3.074	261/71	72.1	66.0 – 77.4	
3.074 – 3.585	263/62	76.3	70.5 – 81.2	
> 3.585	262/96	63.4	57.2 – 68.9	

N/D = Number of patients/ deaths. OS = Ten-year Overall Survival, 95%CI: 95% confidence interval of OS. n.e. = not evaluable.

Table S44. Overall Survival of 786 NB patients in relation to NBAS expression levels by stage at diagnosis, evaluated by the Kaplan-Meier method.

Gene expression	N/D	OS	95%CI	p
<i>Localised stage</i>				
Cut-off based on the median value				<i>0.854</i>
≤ 3.264	186/18	90.3	85.0 – 93.8	
> 3.264	187/17	90.9	85.7 – 94.2	
Cut-offs based on tertile values				<i>0.282</i>
≤ 3.092	124/15	87.9	80.7 – 92.5	
3.092 – 3.504	124/10	91.8	85.3 – 95.5	
> 3.504	125/10	92.0	85.6 – 95.6	
<i>Stage 4</i>				
Cut-off based on the median value				<i>0.081</i>
≤ 3.387	160/85	46.1	37.8 – 54.1	
> 3.387	160/98	38.7	31.1 – 46.3	
Cut-offs based on tertile values				<i>0.018</i>
≤ 3.042	106/52	48.9	38.0 – 58.9	
3.042 – 3.770	107/64	40.8	31.1 – 50.2	
> 3.770	107/67	37.4	28.3 – 46.5	
<i>Stage 4S</i>				
Cut-off based on the median value				<i>0.369</i>
≤ 3.337	45/4	89.7	74.2 – 96.2	
> 3.337	47/7	85.1	71.3 – 92.6	
Cut-offs based on tertile values				<i>0.245</i>
≤ 3.127	30/3	90.0	72.1 – 96.7	
3.127 – 3.597	31/2	92.2	71.5 – 98.0	
> 3.597	31/6	80.7	61.9 – 90.8	
<i>All patients</i>				
Cut-off based on the median value				<i>0.010</i>
≤ 3.311	393/99	74.4	69.5 – 78.5	
> 3.311	393/130	66.8	61.9 – 71.3	
Cut-offs based on tertile values				<i>0.007</i>
≤ 3.074	261/71	72.1	66.0 – 77.4	
3.074 – 3.585	263/62	76.3	70.5 – 81.2	
> 3.585	262/96	63.4	57.2 – 68.9	

N/D = Number of patients/deaths. OS = Ten-year Overall Survival, 95%CI: 95% confidence interval of OS. n.e. = not evaluable.

Table S45. Event Free Survival of 769 NB patients in relation to NBAS expression levels by MYCN status.

Gene expression	N/E	EFS	95%CI	p
<i>MYCN normal</i>				
Cut-off based on the median value				0.791
≤ 3.311	299/100	66.9	61.2 – 71.9	
> 3.311	315/107	66.0	60.5 – 71.0	
Cut-offs based on tertile values				0.730
≤ 3.065	194/66	66.5	59.3 – 72.6	
3.065 – 3.518	210/76	63.8	56.9 – 69.9	
≤ 3.518	210/65	69.1	62.3 – 74.8	
<i>MYCN amplified</i>				
Cut-off based on the median value				0.113
≤ 3.798	74/51	29.2	18.5 – 40.7	
> 3.798	77/60	22.1	13.6 – 31.9	
Cut-offs based on tertile values				0.259
≤ 3.129	49/31	32.3	17.2 – 48.5	
3.129 – 4.487	51/42	17.7	8.7 – 29.2	
≤ 4.487	51/38	25.5	14.6 – 37.9	
<i>All patients</i>				
Cut-off based on the median value				0.063
≤ 3.311	376/146	61.3	56.1 – 66.0	
> 3.311	393/174	55.7	50.7 – 60.5	
Cut-offs based on tertile values				0.008
≤ 3.074	244/95	61.2	54.8 – 67.1	
3.074 – 3.585	263/99	62.4	56.2 – 67.9	
> 3.585	262/126	51.9	45.7 – 57.8	

N/E = Number of patients/ events. EFS = Ten-year Event Free Survival, 95%CI: 95% confidence interval of EFS.
n.e. = not evaluable.

Table S46. Event Free Survival of 769 NB patients in relation to *NBAS* expression levels by stage at diagnosis, evaluated by the Kaplan-Meier method.

Gene expression	N/E	EFS	95%CI	<i>p</i>
<i>Localised stage</i>				
Cut-off based on the median value				<i>0.610</i>
≤ 3.264	177/40	77.4	70.5 – 82.9	
> 3.264	187/46	75.4	68.6 – 81.0	
Cut-offs based on tertile values				<i>0.547</i>
≤ 3.092	115/24	79.1	70.5 – 85.5	
3.092 – 3.504	124/33	73.4	64.7 – 80.3	
> 3.504	125/29	76.8	68.4 – 83.3	
<i>Stage 4</i>				
Cut-off based on the median value				<i>0.490</i>
≤ 3.387	154/100	35.4	27.8 – 43.0	
> 3.387	160/106	33.8	26.5 – 41.1	
Cut-offs based on tertile values				<i>0.201</i>
≤ 3.042	100/62	38.4	28.7 – 47.9	
3.042 – 3.770	107/73	31.8	23.2 – 40.7	
> 3.770	107/71	33.6	24.9 – 42.6	
<i>Stage 4S</i>				
Cut-off based on the median value				<i>0.599</i>
≤ 3.337	43/12	72.1	56.1 – 83.1	
> 3.337	47/15	68.1	52.8 – 79.4	
Cut-offs based on tertile values				<i>0.487</i>
≤ 3.127	28/8	71.4	50.9 – 84.6	
3.127 – 3.597	31/8	74.2	55.0 – 86.2	
> 3.597	31/11	64.5	45.2 – 78.5	
<i>All patients</i>				
Cut-off based on the median value				<i>0.063</i>
≤ 3.311	376/146	61.3	56.1 – 66.0	
> 3.311	393/174	55.7	50.7 – 60.5	
Cut-offs based on tertile values				<i>0.008</i>
≤ 3.074	244/95	61.2	54.8 – 67.1	
3.074 – 3.585	263/99	62.4	56.2 – 67.9	
> 3.585	262/126	51.9	45.7 – 57.8	

N/E = Number of patients/events. EFS = Ten-year Event Free Survival, 95%CI: 95% confidence interval of EFS.