

## SUPPLEMENTARY TABLES

**Supplementary Table 1. JASPAR predicts that NFKB1 binds to the upstream 2.5kb promoter element RE (ensemble binding database) of DGCR5.**

Matrix ID	Name	Score	Relative score	Sequence ID	Start	End	Strand	Predicted sequence
MA0105.2	NFKB1	10.9251	0.863738922	3	1935	1945	+	GGGGGACCCCT
MA0105.2	NFKB1	10.7127	0.858678263	3	1935	1945	-	AGGGGTCCCC
MA0105.2	NFKB1	9.54881	0.830954487	3	1760	1770	-	GGGGGTGTTCC
MA0105.2	NFKB1	8.96001	0.816928923	3	1624	1634	+	GGGGAGGACCC
MA0105.2	NFKB1	8.56588	0.807540503	3	939	949	-	GGGGAACCTCA
MA0105.3	NFKB1	7.6742	0.860929072	3	939	949	+	TGAGGTTCCCC

**Supplementary Table 2. Negatively correlated genes of DGCR5 in various datasets of brain tumors.**

	TCGA	GSE4290	REMBRANDT
SYDE1	-0.620	-0.662 (216272_x_at)	-0.325
TGIF1	-0.613	-0.673 (203313_s_at)	-0.610
GNAI3	-0.606	-0.676 (201179_s_at)	-0.658
ITGB1	-0.628	-0.647 (211945_s_at)	-0.559
VIM	-0.620	-0.654 (201426_s_at)	ND
DDOST	-0.622	-0.648 (208675_s_at)	-0.570
GPX7	-0.615	-0.661 (213170_at)	-0.602
PYGL	-0.601	-0.690 (202990_at)	-0.513
CLIC4	-0.601	-0.604 (201560_at)	-0.499
HDAC1	-0.617	-0.669 (201209_at)	-0.594
SLC30A7	-0.659	-0.627 (226601_at)	-0.615
FAM46A	-0.612	-0.676 (224973_at)	-0.580
GNG5	-0.643	-0.640 (207157_s_at)	-0.553
NEDD1	-0.610	-0.644 (1560116_a_at)	-0.659
AK2	-0.652	-0.633 (208967_s_at)	-0.531
MBD2	-0.606	-0.715 (202484_s_at)	ND
CDK2	-0.604	-0.623 (204252_at)	-0.523
PLOD1	-0.607	-0.611 (200827_at)	-0.498