

**TABLE S10: Genes set enrichment analysis revealed a significant overrepresentation of the REACTOME\_CELL\_CYCLE set in high Combo score patients compared to low Combo score patients ( $P < 0.01$ ).**

PROBE	GENE SYMBOL	GENE_TITLE	RANK METRIC SCORE	RUNNING ES	CORE ENRICHMENT
CDT1	CDT1	chromatin lincensing and DNA replication factor 1	-0.127870694	-0.5693202	Yes
HIST1H2BC	HIST1H2BC	histone cluster 1, H2bc	-0.129817352	-0.55808115	Yes
PSMA8	PSMA8	proteasome (prosome, macropain) subunit, alpha type, 8	-0.139692619	-0.55166554	Yes
HIST1H2AE	HIST1H2AE	histone cluster 1, H2ae	-0.145508602	-0.5411239	Yes
MCM4	MCM4	MCM4 minichromosome maintenance deficient 4 ( <i>S. cerevisiae</i> )	-0.152304724	-0.52887	Yes
PLK4	PLK4	polo-like kinase 4 ( <i>Drosophila</i> )	-0.152752295	-0.51196724	Yes
CDCA8	CDCA8	cell division cycle associated 8	-0.154042289	-0.49468413	Yes
KIF23	KIF23	kinesin family member 23	-0.157216638	-0.4788693	Yes
HIST1H2AD	HIST1H2AD	histone cluster 1, H2ad	-0.164881527	-0.46468836	Yes
HIST1H2BG	HIST1H2BG	histone cluster 1, H2bg	-0.167829394	-0.44694582	Yes
CCNB2	CCNB2	cyclin B2	-0.168697953	-0.42772296	Yes
CCNB1	CCNB1	cyclin B1	-0.170906231	-0.40893194	Yes
BUB1B	BUB1B	BUB1 budding uninhibited by benzimidazoles 1 homolog beta ( <i>yeast</i> )	-0.17234768	-0.3890534	Yes
AURKA	AURKA	aurora kinase A	-0.176049516	-0.3696623	Yes
CENPA	CENPA	centromere protein A	-0.176667497	-0.34950963	Yes
MCM10	MCM10	MCM10 minichromosome maintenance deficient 10 ( <i>S. cerevisiae</i> )	-0.190355882	-0.33626366	Yes
KIF20A	KIF20A	kinesin family member 20A	-0.206273943	-0.3179428	Yes
HIST1H4H	HIST1H4H	histone cluster 1, H4h	-0.210105702	-0.29526776	Yes
OIP5	OIP5	Opa interacting protein 5	-0.210215062	-0.2707413	Yes
BIRC5	BIRC5	baculoviral IAP repeat-containing 5 ( <i>survivin</i> )	-0.215311497	-0.24768871	Yes
GIN51	GIN51	GIN5 complex subunit 1 ( <i>Psf1</i> homolog)	-0.225035444	-0.22511041	Yes
NEK2	NEK2	NIMA ( <i>never in mitosis gene a</i> )-related kinase 2	-0.227829218	-0.19898851	Yes
TYMS	TYMS	thymidylate synthetase	-0.23626557	-0.17303148	Yes
HIST1H4C	HIST1H4C	histone cluster 1, H4c	-0.240711197	-0.1460961	Yes
NUMA1	NUMA1	nuclear mitotic apparatus protein 1	-0.241789743	-0.11834538	Yes
MCM2	MCM2	MCM2 minichromosome maintenance deficient 2, mitotin ( <i>S. cerevisiae</i> )	-0.245723307	-0.08990589	Yes
HIST2H2BE	HIST2H2BE	histone cluster 2, H2be	-0.246814266	-0.061109282	Yes
RRM2	RRM2	ribonucleotide reductase M2 polypeptide	-0.280034333	-0.030964933	Yes
CHEK1	CHEK1	CHK1 checkpoint homolog ( <i>S. pombe</i> )	-0.281156719	0.001838521	Yes