

**Supplementary Table 3.** DNA replication licensing and cell cycle-associated genes regulated by 6h progesterone in normal breast and T-47D breast cancer cells in matrix-embedded culture.

Symbol	Accession	Name	Normal breast		T-47D	
			Mean Fold*	p value#	Mean Fold+	p value#
DNA replication licencing						
CDC7	NM_003503.2	Cell division cycle 7	1.5	0.0020	nr	nr
CDT1	NM_030928.2	Chromatin licensing and DNA replication factor 1	1.7	0.0013	nr	nr
MCM2	NM_004526.2	Minichromosome maintenance deficient 2	2.2	0.0005	nr	nr
MCM3	NM_002388.3	Minichromosome maintenance deficient 3	1.8	0.0006	nr	nr
MCM4	NM_005914.2	Minichromosome maintenance deficient 4	1.9	0.0001	nr	nr
MCM5	NM_006739.3	Minichromosome maintenance deficient 5	2.0	0.0004	nr	nr
ORC1L	NM_004153.2	Origin recognition complex, subunit 1-like	1.7	0.0019	nr	nr
ORC5L	NM_002553.2	Origin recognition complex, subunit 5-like	1.4	0.0053	nr	nr
POLA2	NM_002689.2	DNA polymerase alpha 2	1.7	0.0006	nr	nr
G1/S transition						
CCNB2	NM_004701.2	Cyclin B2	-1.7	0.0028	nr	nr
CCND1	NM_053056.2	Cyclin D1	1.5	0.0029	nr	nr
CCND2	NM_001759.2	Cyclin D2	1.5	0.0008	nr	nr
CCNE2	NM_057749.1	Cyclin E2	1.96	0.0008	nr	nr
CCNG1	NM_199246.1	Cyclin G1, transcript variant 2	-1.66	0.0000	-2.0	0.0000
CDC25A	NM_001789.2	Cell division cycle 25A, transcript variant 1	2.4	0.0001	nr	nr
CDK6	NM_001259.5	Cyclin-dependent kinase 6	1.5	0.0007	2.1	0.0000
CDKN3	NM_005192.2	Cyclin-dependent kinase inhibitor 3	-1.7	0.0020	nr	nr
CLK1	NM_004071.2	CDC-like kinase 1	1.4	0.0000	nr	nr
DUSP1	NM_004417.2	Dual specificity phosphatase 1	-1.2	0.0025	nr	nr
E2F1	NM_005225.1	E2F transcription factor 1	2.3	0.0025	nr	nr
E2F2	NM_004091.2	E2F transcription factor 2	1.8	0.0001	nr	nr
E2F3	NM_001949.2	E2F transcription factor 3	1.4	0.0025	nr	nr
E2F4	NM_001950.3	E2F transcription factor 4	1.7	0.0017	nr	nr
TFDP1	NM_007111.3	Transcription factor Dp-1	1.6	0.0015	nr	nr
G2/M check-point & kinetochore function						
CDC25B	NM_021872.2	Cell division cycle 25B, transcript variant 3	-1.6	0.0003	nr	nr
CDC25C	NM_022809.2	Cell division cycle 25C, transcript variant 2	-2.0	0.0048	nr	nr
LMNB1	NM_005573.2	Lamin B1	1.2	0.0028	nr	nr
LMNB2	NM_032737.2	Lamin B2	1.6	0.0018	nr	nr
RAN	NM_006325.2	RAN, member RAS oncogene family	1.5	0.0019	nr	nr
RCC1	NM_001048197.1	Regulator of chromosome condensation 1	1.5	0.0007	nr	nr

nr = not regulated. \* Mean fold change, 6h progesterone vs vehicle in regulated normal breast cultures.

+ Mean fold change, 6h progesterone vs vehicle in T-47D in matrix-embedded culture.

# Differential expression p-value.