Single-stranded, Blue-labeled cDNA from normal cells

Copy on BLUE colored paper or cardstock.
Cut out each cDNA.
Combine these cDNAs with one sheet of the red cDNA from tumor cells.

CATCGGAAC	CATCGGAAC
CATCGGAAC	CATCGGAAC
CCGGGAAATT	CCGGGAAATT
GTAAAATTT	GTAAAATTT
GTAGGAATAT	GTAGGAATAT
GCGCGCCCGCG	GCGCGCCCGCG
GTAGGAATAT	GTAGGAATAT
ATTTAACAAGTT	ATTTAACAAGTT

Single-stranded, Red-labeled cDNA from abnormal tumor cells

Copy on RED colored paper or cardstock.
Cut out each cDNA.
Combine these cDNAs with one sheet of the blue cDNA from normal cells.

ATATATAT	ATATATAT
ATATATAT	ATATATAT
ATATATAT	ATATATAT
AGTAGTAGTAG	AGTAGTAGTAG
CCGGGAAATT	CCGGGAAATT
CCCCGATCCCCC	CCCCGATCCCCC
GTAGGAAT	GTAGGAAT
AGTAGTAGTAG	AGTAGTAGTAG

1

GGGTAGCCTTGG

2

CATGCATCCATG

3

GGGGCCCTTTAA

4

GCATTTTAAAGG

5

CCATCCTTATAG

6

TATATATATATA

Teacher Answer Key

GGGTAGCCTTGG

BLUE
highly expressed in normal cells only (4X)

CATGCATCCATG

BLACK
NOT expressed in either cells

GGGGCCCTTTAA

PURPLE
(constitutively) expressed equally in normal and cancer cells (2X)

Teacher Answer Key

GCATTTTAAAGG

LIGHT BLUE
expressed in normal cells only (2X)

CCATCCTTATAG

PURPLE/BLUE
expressed in normal cells (4X)
and cancer cells (2X)

TATATATATATA

RED
highly expressed in cancer cells only (6X)