

CLAIMS

1. A method for producing tumor cells by carrying out the following treatments (1) and (2) on normal human mammary epithelial cells:

(1) elimination of p53 function; and

5 (2) introduction of a v-Src gene;

wherein the tumor cells are negative for expression of estrogen receptor, negative for expression of progesterone receptor, and negative for expression of ERBB2.

2. The method according to claim 1, wherein forced expression of a cyclin-dependent kinase gene is further carried out.

10 3. The method according to claim 2, wherein the cyclin-dependent kinase gene is a Cdk4 gene.

4. ~~A method for producing tumor cells by carrying out the following treatments (1) to (3) on normal mammary epithelial cells:~~

~~—— (1) elimination of p53 function;~~

15 ~~—— (2) introduction of an EGFR mutant gene; and~~

~~—— (3) introduction of a c-Myc gene.~~The method according to claim 1, wherein the treatment of elimination of p53 function includes addition of p53 protein neutralizing antibody, cellular introduction of a gene that encodes that antibody, knockout of a gene that encodes p53 protein, knockdown of TP53 gene by RNA interference, or forced expression of dominant negative TP53 gene.

5. The method according to claim 4, wherein the treatment of elimination of p53 function is forced expression of dominant negative TP53 gene.

56. The method according to any one of claims 1 to 45, wherein the tumor cells are

negative for expression of estrogen receptor, negative for expression of progesterone receptor, and negative for expression of ERBB2.

~~6. The method according to any one of claims 1 to 5, wherein the normal mammary epithelial cells are mammalian, primate or rodent cells.~~

- 5 7. Tumor cells produced by the method according to any one of claims 1 to 6.
8. A method of screening anti-tumor agents,
the method comprising:
(a) contacting the tumor cells according to claim 7 with a candidate substance; and
(b) detecting growth inhibitory effects on the tumor cells.
- 10 9. A cancer-bearing animal model transplanted with the tumor cells according to claim 7.
10. A method of screening anti-tumor agents,
the method comprising:
(a) contacting the cancer-bearing animal model according to claim 9 with a candidate
substance, and
- 15 (b) detecting growth inhibitory effects on tumor cells.