

Claims

1. A method for predicting a differentiation potential of a human pluripotent stem cell comprising measuring an expression level of CHD7 of the human pluripotent stem cell, and predicting that a human pluripotent stem cell having the expression level of CHD7 of not less than 1500 copies in 5 ng of the total RNA is to show a differentiation potential in response to a differentiation stimulus.
2. The method according to claim 1, wherein the expression level of CHD7 is not less than 2710 copies in 5 ng of the total RNA.
3. The method according to claim 1 or 2, wherein the expression level of CHD7 is an expression level of a human pluripotent stem cell cultured for not less than 5 passages with Essential 8 medium or Stem-Partner (registered trade mark) Human iPS/ES cells medium.
4. The method according to any one of claims 1 to 3, wherein the human pluripotent stem cell is an embryonic stem cell or an induced pluripotent stem cell.
5. A method for evaluating a medium for a human pluripotent stem cell comprising measuring an expression level of CHD7 of the human pluripotent stem cell, and evaluating the test medium as being capable of maintaining the human pluripotent stem cell to show a differentiation potential in response to a differentiation stimulus, when the expression level of CHD7 is not less than 1500 copies in 5 ng of the total RNA.
6. The method according to claim 5, wherein the human pluripotent stem cell is a human pluripotent stem cell cultured for not less than 5 passages with the test medium.

7. The method according to claim 5 or 6, wherein the expression level of CHD7 is not less than 2710 copies in 5 ng of the total RNA.

8. The method according to any one of claims 5 to 7, wherein the human pluripotent stem cell is an embryonic stem cell or an induced pluripotent stem cell.

9. A reagent or kit for use in the method according to any one of claims 1 to 8, comprising a substance capable of detecting an expression of CHD7.

10. A differentiation-inducing agent for a human pluripotent stem cell comprising a nucleic acid encoding CHD7.

11. A method for predicting a differentiation potential of a human pluripotent stem cell comprising measuring an expression level of CHD7 of the human pluripotent stem cell, and predicting that the human pluripotent stem cell is to show a differentiation potential in response to a differentiation stimulus, when the expression level of CHD7 is a protein level not less than two times a CHD7 protein level of a human pluripotent stem cell showing a differentiation resistance, wherein the human pluripotent stem cell showing the differentiation resistance is a human pluripotent stem cell cultured for not less than 5 passages with ReproFF2 medium.

12. The method according to claim 11, wherein the expression level of CHD7 is an expression level of a human pluripotent stem cell cultured for not less than 5 passages with Essential 8 medium or Stem-Partner (registered trade mark) Human iPS/ES cells medium.