

Title (en)

SELECTABLE CELL SURFACE MARKER GENES

Title (de)

SELEKTIERBARE ZELLOBERFLÄCHENMARKERGENEN

Title (fr)

GENES MARQUEURS DE SURFACE SELECTIONNABLES

Publication

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Application

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Abstract (en)

[origin: WO0136659A2] The present invention concerns a method of identifying genetically modified mammalian cells using a mutated protein-tyrosine kinase receptor (PTKR) as a selectable marker in mammalian cells. Particularly preferred mutated PTKR selective markers are mutated epidermal growth factor receptor (EGFR) family members, and muscle specific tyrosine kinase receptor (MuSK-R) family members. Further a method for the immunoselection of transduced mammalian cells is disclosed comprising retrovirally transducing mammalian cells with a nucleic acid sequence encoding a mutated EGFR, incubating the transduced cells with a marked antibody which recognizes and binds specifically to the mutated PTKR, and identifying the marked transduced cells.

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