MANIPULATED IMMUNOREGULATORY ELEMENT AND IMMUNITY ALTERED THEREBY

ABSTRACT

The present invention relates to an artificially manipulated immune system having an improved immune effect. More particularly, the present invention relates to an immune system having functions artificially altered which comprises artificially manipulated immunoregulatory elements and cells containing the same. Contemplated according to a particular embodiment is an immune system comprising artificially manipulated immunoregulatory genes such as PD-1, CTLA-4, A20, DGKα, DGKζ, FAS, EGR2, PPP2R2D, PSGL-1, KDM6A, and TET2, and/or expression products thereof.

[FIG. 15]