

Title (en)

METHODS AND COMPOSITIONS FOR EDITING THE B2M LOCUS IN B CELLS

Title (de)

VERFAHREN UND ZUSAMMENSETZUNGEN ZUR BEARBEITUNG DES B2M-LOKUS IN B-ZELLEN

Title (fr)

PROCÉDÉS ET COMPOSITIONS DE MODIFICATION DU LOCUS B2M DANS DES CELLULES B

Publication

**EP 4175651 A1 20230510 (EN)**

Application

**EP 21832140 A 20210630**

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Abstract (en)

[origin: WO2022006309A1] Some embodiments of the methods and compositions provided herein include preparing modified B cells. In some embodiments, an endogenous beta-2 microglobulin (B2M) gene in a B cell is modified. Some embodiments relate to increasing the resistance of modified B cells to killing by allogeneic immune cells. In some embodiments, the endogenous B2M gene is inactivated increasing the resistance of the modified B cell to killing by allogeneic immune cells. In some embodiments, a replacement MHC-I is inserted into an inactivated endogenous B2M gene increasing the resistance of the modified B cell to killing by allogeneic immune cells. Some embodiments include enriching for successfully modified cells.

IPC 8 full level

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