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(54) Title: RANDOMIZED PEPTIDE LIBRARIES PRESENTED BY HUMAN LEUKOCYTE ANTIGENS

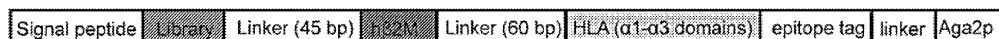


FIG. 1A

(57) Abstract: Described herein is an antigen screening library comprising a plurality of Human Leukocyte Antigen (HLA)-antigen polypeptide complexes, the HLA-antigen polypeptide complexes comprising: (a) an HLA polypeptide; (b) a randomized antigen polypeptide comprising an amino acid sequence set forth in any one of SEQ ID NOs: 1 to 209, wherein the randomized antigen polypeptide is selected to specifically bind to peptide binding cleft of the HLA polypeptide; and (c) a $\beta 2$ microglobulin polypeptide. These libraries can be used to determine antigenic polypeptides capable of interacting and stimulating a selected T cell receptor (TCR).

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