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(71) Applicant *(for all designated States except US)*: **ONCOTHERAPY SCIENCE, INC.** [JP/JP]; 2-1, Sakado 3-chome, Takatsu-ku, Kawasaki-shi, Kanagawa, 2130012 (JP).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **NAKAMURA, Yusuke** [JP/JP]; c/o THE UNIVERSITY OF TOKYO, 3-1, Hongo 7-chome, Bunkyo-ku, Tokyo, 1138654 (JP). **TSUNODA, Takuya** [JP/JP]; c/o ONCOTHERAPY SCIENCE, INC., 2-1, Sakado 3-chome, Takatsu-ku, Kawasaki-shi, Kanagawa, 2130012 (JP). **OHSAWA, Ryuji** [JP/JP]; c/o ONCOTHERAPY SCIENCE, INC., 2-1, Sakado 3-chome, Takatsu-ku, Kawasaki-shi, Kanagawa, 2130012 (JP). **YOSHIMURA, Sachiko** [JP/JP]; c/o ONCOTHERAPY SCIENCE, INC., 2-1, Sakado 3-chome, Takatsu-ku, Kawasaki-shi, Kanagawa, 2130012 (JP). **WATANABE, Tomohisa** [JP/JP]; c/o ONCOTHERAPY SCIENCE, INC., 2-1, Sakado 3-chome, Takatsu-ku, Kawasaki-shi, Kanagawa, 2130012 (JP).

(74) Agents: **SHIMIZU, Hatsushi** et al.; Kantetsu Tsukuba Bldg. 6F, 1-1-1, Oroshi-machi, Tsuchiura-shi, Ibaraki, 3000847 (JP).

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(54) **Title**: TMEM22 PEPTIDES AND VACCINES INCLUDING THE SAME

(57) **Abstract**: Isolated peptides composed of the amino acid sequence of SEQ ID NO: 33 or fragments thereof that bind to HLA antigens and have cytotoxic T lymphocyte (CTL) inducibility and thus are suitable for use in the context of cancer immunotherapy, more particularly cancer vaccines are described herein. The present invention further provides peptides that include one, two, or several amino acid insertions, substitutions or additions to the aforementioned peptides or fragments, but yet retain the requisite cytotoxic T cell inducibility. Further provided are nucleic acids encoding any of these aforementioned peptides as well as pharmaceutical agents, substances and compositions including any of the aforementioned peptides or nucleic acids. The peptides, nucleic acids, pharmaceutical agents, substances and compositions of this invention find particular utility in the treatment of cancers and tumors.

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