

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
26 June 2025 (26.06.2025)



(10) International Publication Number
WO 2025/132695 A1

(51) International Patent Classification:

C12N 7/00 (2006.01) C12N 15/86 (2006.01)
A61K 35/76 (2015.01) A61K 35/766 (2015.01)

(21) International Application Number:

PCT/EP2024/087270

(22) International Filing Date:

18 December 2024 (18.12.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

23218131.3 19 December 2023 (19.12.2023) EP

(71) Applicant: **BOEHRINGER INGELHEIM INTERNATIONAL GMBH** [DE/DE]; Binger Strasse 173, 55216 Ingelheim am Rhein (DE).

(72) Inventors: **NOLDEN, Tobias**; Boehringer Ingelheim International GmbH, Global Patents, Binger Strasse 173, 55216 Ingelheim am Rhein (DE). **DAS, Krishna**; Boehringer Ingelheim International GmbH, Global Patents, Binger Strasse 173, 55216 Ingelheim am Rhein (DE). **SCHNEIDER, Sabrina**; Boehringer Ingelheim International GmbH, Global Patents, Binger Strasse 173, 55216 Ingelheim am Rhein (DE). **SCHWAIGER, Theresa**; Boehringer Ingelheim International GmbH, Global Patents, Binger Strasse 173, 55216 Ingelheim am Rhein (DE). **SPIESSCHAERT, Bart Gerrit**; Boehringer Ingelheim International GmbH, Global Patents, Binger Strasse 173, 55216 Ingelheim am Rhein (DE).

(74) Agent: **LUTZE, Oliver** et al.; Boehringer Ingelheim International GmbH, Global Patents, Binger Strasse 173, 55216 Ingelheim am Rhein (DE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, CV,

GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

Published:

— with international search report (Art. 21(3))
— with sequence listing part of description (Rule 5.2(a))
— in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE

WO 2025/132695 A1

(54) Title: RECOMBINANT RHABDOVIRUS ENCODING FOR A GASDERMIN

(57) Abstract: The present invention relates to the field of oncolytic viruses and in particular to a recombinant rhabdovirus, such as vesicular stomatitis virus encoding in its genome for a gasdermin. The invention is further directed to the use of the recombinant virus in the treatment of cancer and also to methods for producing such viruses.