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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
18 September 2025 (18.09.2025)

WIPO | PCT

(10) International Publication Number
WO 2025/194009 A1

(51) International Patent Classification:
C12N 15/86 (2006.01) *A61P 25/28* (2006.01)
A61K 38/17 (2006.01) *C07K 14/005* (2006.01)
A61K 48/00 (2006.01)

(21) International Application Number:
PCT/US2025/019879

(22) International Filing Date:
13 March 2025 (13.03.2025)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/564,791 13 March 2024 (13.03.2024) US
63/643,900 07 May 2024 (07.05.2024) US

(71) Applicant: **SANGAMO THERAPEUTICS, INC.** [US/US]; 501 Canal Blvd., Suite A100, Richmond, California 94804 (US).

(72) Inventors: **ZEITLER, Bryan**; c/o Sangamo Therapeutics, Inc., 501 Canal Blvd., Suite A100, Richmond, California 94804 (US). **OJALA, David S.**; c/o Sangamo Therapeutics, Inc., 501 Canal Blvd., Suite A100, Richmond, California 94804 (US). **ZHANG, Lei**; c/o Sangamo Therapeutics, Inc., 501 Canal Blvd., Suite A100, Richmond, California 94804 (US). **TIFFANY, Matthew R.**; c/o Sangamo Therapeutics, Inc., 501 Canal Blvd., Suite A100, Richmond, California 94804 (US).

(74) Agent: **WURSTER, April**; 1 East Washington Street, Suite 2700, Phoenix, Arizona 85004 (US).

(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, UY, 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,

(54) Title: ZINC FINGER PROTEINS FOR TREATING PRION DISEASE

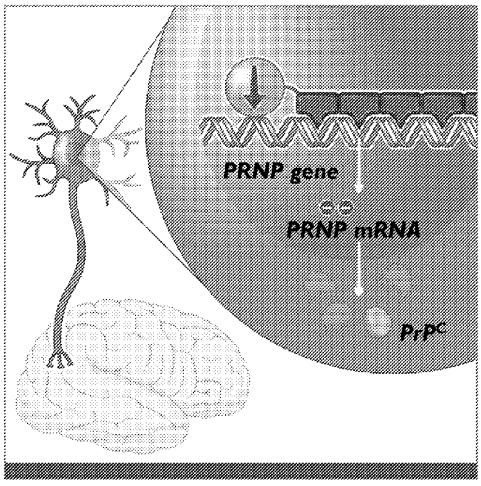


FIG. 1A

(57) Abstract: Disclosed are zinc finger fusion proteins that inhibit expression of the prion gene in the nervous system, compositions thereof, and methods of using the proteins and compositions to treat prion disease.

[Continued on next page]

WO 2025/194009 A1

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).

Published:

— *with international search report (Art. 21(3))*

— *with sequence listing part of description (Rule 5.2(a))*