

(51) International Patent Classification:
A01K 67/027 (2006.01)(21) International Application Number:
PCT/US2013/072088(22) International Filing Date:
26 November 2013 (26.11.2013)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/730,771 28 November 2012 (28.11.2012) US

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(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,

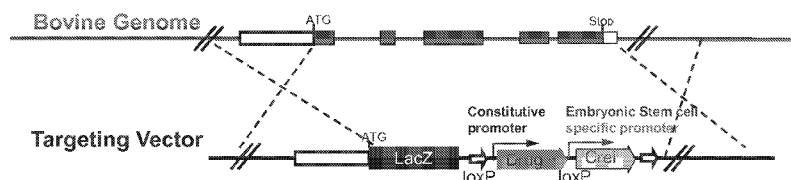
BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, 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, 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))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(54) Title: CLONED NON-HUMAN ANIMALS FREE OF SELECTIVE MARKERS

Fig. 2

(57) **Abstract:** Genetically modified somatic cells of a non-human animal are provided that are engineered to contain a self-excisable, recombinase expression cassette comprising a site-specific recombinase gene operably linked to an ES cell-specific promoter. Compositions and methods for producing a genetically modified, cloned non-human animal that is free of a selective marker gene and a recombinase gene are provided, wherein a targeting construct comprising a self-excisable recombinase gene operably linked to an ES cell-specific promoter is introduced into differentiated somatic cells. The genetically modified genome of the somatic cells is transferred into an enucleated host oocyte. The artificially created zygote is then cultured *in vitro* until the blastocyst embryonic stage and subsequently implanted into a uterus of a surrogate mother to form a genetically modified, cloned non-human animal free of selective marker and recombinase genes.

