Substitute Form PTO-1595 Attorney Docket No.: 06501-094001 Client's Ref. No.: C2-103PCT-US

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|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Name of conveying party(ies): | 2. Name and address of receiving party(ies): |
| Jun-Ichi Nezu, Asuka Ose, Kou-ichi J Dieter E. Jenne Additional name(s) attached? ☐ Yes | 5-1, Ukima 5-chome, Kita-ku |
| ☐ Security Agreement ☐ Change of Name ☐ Other: | v 13 2002 Additional names/addresses attached? ☐ Yes ☑ No |
| Execution Date: Nezu and Ose, February Jishage, February 19, 2002; and Jenr 2002 | j .0, 2002, |
| 4. Application number(s) or patent number(s): | |
| If this document is being filed with a new applic | cation, the execution date of the application is: |
| A. Patent Application No(s).: | B: Patent No(s).: |
| 10/006,611 | |
| Ac | dditional numbers attached? ☐ Yes ☒ No |
| Name/address of party to whom correspondence document should be mailed: | 6. Total number of applications/patents involved: 1 |
| JANIS K. FRASER, PH.D., J.D. Fish & Richardson P.C. 225 Franklin Street | 7. Total fee (37 CFR §3.41): \$40 国 Enclosed 日 Authorized to charge Deposit Account. |
| Boston, Massachusetts 02110-2804 | 8. Deposit Account No.: 06-1050 |
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CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner of Patents,

Washington, D.C. 20231.

Typed Name of Person Signing Certificate

PATENT

REEL: 012854 FRAME: 0231

Attorney Docket No: 06501-094001

ASSIGNMENT

For valuable consideration, we, <u>JUN-ICHI NEZU</u> of <u>Ibaraki</u>, <u>Japan</u>, <u>ASUKA OSE</u> of <u>Ibaraki</u>, <u>Japan</u>, <u>KOU-ICHI JISHAGE</u> of <u>Shizuoka</u>, <u>Japan</u>, and <u>DIETER E. JENNE</u> of <u>Neuried</u>, <u>GERMANY</u>, hereby assign to:

Chugai Seiyaku Kabushiki Kaisha, a Japanese corporation having a place of business at:

5-1, Ukima 5-chome, Kita-ku Tokyo 115-8543 Japan; and

its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled LKB1 GENE KNOCKOUT ANIMALS, filed November 30, 2001, and assigned U.S. Serial Number 10/006,611, this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

PATENT REEL: 012854 FRAME: 0232

Attorney Docket No: 06501-094001

| In Witness Wher | EOF, I hereto set n | ny hand and | l seal at ⊥⊥b | araki, J | APAN |
|-----------------------------------------------|---------------------|-------------|---------------|-------------|----------|
| this <u>13th</u> day of _ | February | , 2002 | , | | |
| | , | | | | L.S. |
| Jun JUN | N-ICHI NEZU | 8 | | <u> </u> | |
| | | | | | |
| Witnessed by: | yuchi) | 4erata | ··· | | _ |
| Name: Yuich H | irata | _ Date: _ | February | , 13 , 2002 | <u>.</u> |
| Witnessed by: | Peters_ | Onta | | | _ |
| Name: Tetsuro (| Srita | Date: | February | 13 , 2002 | |
| IN WITNESS WHER | | | | Itarak, | JAPAN. |
| this $\frac{3t\mu}{day}$ day of $\frac{3}{2}$ | | | | | |
| AS: | JKA OSE | IRX · | | | L.S. |
| | | | | | |
| Witnessed by: | ichi Hiro | ita | | | _ |
| Name: Yuichi F | lirata | _ Date: _ | ebruary | 13,2002 | - |
| Witnessed by: | etraro ani | la | | | _ |
| Name: Tetauro | Crita | Date: | February | 13 2002 | |

PATENT REEL: 012854 FRAME: 0233

Attorney Docket No: 06501-094001

| IN WITNESS WHEREOF, I hereto set my hand and seal at Shizuoka, Japan this 18th day of February, 2002 Kou-ichi Jishage L KOU-ICHI JISHAGE | , .S. |
|---------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Witnessed by: | |
| Name: HIROSHI CBADA Date: February 19, 2022 | |
| Witnessed by: | |
| Name: KITUSHI HABU Date: February 17, 2002. | |
| IN WITNESS WHEREOF, I hereto set my hand and seal at Neuried, GERMANY this | , S. |
| Witnessed by: | |
| Name: F.C. KURSCHUS Date: March 5, 2002 | |
| Name: GABRIELC BUILKE Date: Mark S 2002 | |
| Name: GABRIELC BUILKE Date: Mark S 2002 | |

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PATENT REEL: 012854 FRAME: 0234