Docket #: S55-609D

L2G85 mouse strain: Jax lab stock number 010548 D1.FVB(Cg)-Tg(CAG-luc)L2G85Chco Jax lab stock number 010545 C.FVB-Tg(CAG-luc,-GFP)L2G85Chco

These L2G85.DBA/1 mice harbor the GAG-luc-eGFP L2G85 transgene. Homozygous mice are viable and fertile, with widespread expression of firefly luciferase and enhanced green fluorescent protein directed by the CAG promoter (human cytomegalovirus immediate early promoter enhancer with chicken beta-actin/rabbit beta-globin hybrid promotor). Bioluminesence is detected in heart, spleen, muscle, pancreas, skin, thymus and bone marrow. Luciferase activity is not detected in mature erythrocytes, although low levels are detected in erythrocyte precursors and varying levels of activity in all leukocyte subsets tested. homozygotes have no reported gross physical or behavioral abnormalities. Following luciferin injection, luciferase expression is generally greater in males than females. GFP fluorescence is detected in skin (upper epidermal layers) by fluorescence microscopy.

These mice have been deposited at Jackson Labs. The stock number is 010548. For-profit companies will need a license from Stanford prior to obtaining the mice.

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