

STOCK *Gt(ROSA)26Sor^{tm5(ACTB-tTA)Luo}* *Igs7^{tm93.1(tetO-GCaMP6f)Hze}* /HzeJ

Stock No: **024107** | Ai93(TITL-GCaMP6f)-D;ROSA26-ZiTA

 Targeted Mutation

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

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GCaMP6f inserted into the *Igs7* locus (11GRE; an intergenic region on mouse chromosome 9 that allows reporter expression to be tightly regulated), as well as a Cre-dependent tetracycline-controlled transactivator protein (tTA) inserted into the *Gt(ROSA)26Sor* locus on chromosome 6. After removal of the floxed-STOP cassettes by Cre recombinase, resulting mice have doxycycline-inducible/reversible expression of GCaMP6 fast variant calcium indicator (GCaMP6f; a detector of single neuronal action potentials with fast response kinetics). Following subsequent calcium binding (such as neuronal activation), bright EGFP fluorescence is observed.

Donating Investigator

Hongkui Zeng, Allen Institute for Brain Science

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GENETIC OVERVIEW

Genetic Background Generation

Gt(ROSA)26Sor^{tm5(ACTB-tTA)Luo}

Alele Type	Gene Symbol	Gene Name
Targeted (Reporter, Transactivator)	<i>Gt(ROSA)26Sor</i>	gene trap ROSA 26, Philippe Soriano

Igs7^{tm93.1(tetO-GCaMP6f)Hze}

Alele Type	Gene Symbol	Gene Name
Targeted (Conditional ready (e.g. floxed), Reporter, Inducible)	<i>Igs7</i>	intergenic site 7

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