

Authentication of Key Biological and/or Chemical Resources

Foxp3^{-(ires)-gfp} mouse: This is a Foxp3 reporter model developed by Dr. Vijay Kuchroo⁴² and has been widely utilized as a means of detecting, sorting, and tracking regulatory T cells that express the Treg cell lineage transcription factor, Foxp3, based on expression of green fluorescent protein (GFP)⁵⁵⁻⁵⁸. The reporter construct was designed by insertion of an internal ribosome entry site (IRES) followed by the *Gfp* coding sequence downstream of the *Foxp3* gene. GFP faithfully reports active expression of *Foxp3* and does not impair the expression or function of Foxp3⁴³. For our studies, female mice have been bred to homozygosity, but we will also perform confirmatory genotyping of hemizygous males prior to harvesting donor T cells for use in experiments.

CBir1 TCR transgenic mouse: This strain expresses a transgenic T cell receptor (TCR) that recognizes a peptide sequence from the CBir1 flagellin in the context of MHC II. CBir1 antigen is present in mice and humans and can be detected by PCR in most mouse colonies, including ours. Accordingly, CBir1 Tg mice have been utilized by at various institutions in the study of host-microbiota interactions^{50,59-61}. Since we are proposing to merge this strain with the *Foxp3^{-(ires)-gfp}* reporter, we will initially confirm the expression of the transgenic TCR by flow cytometry prior to all experiments.