Supplemental Figure 1. Flow cytometry analysis of T and B cells in peripheral blood. Leukocytes were isolated from peripheral blood cells and stained with CD4, CD8, and B220. Representative dot plots from the time point of 7 weeks after BMT are shown. (A) The percentages of CD4 and CD8 cells. (A)The percentages of B cells.
Supplemental Figure 2. The correlation of clinical score and body weight in transduced recipients after EAE induction. After 2bMOG-transduction followed by transplantation and 3 months of bone marrow reconstitution, animals were challenged with MOG\textsubscript{35-55} peptide emulsified in the complete Freund’s adjuvant along with the intraperitoneal injection of pertussis toxin to induce the development of EAE. Animals were monitored daily between day 5-20 after EAE induction for clinical scores and the changes of body weights. The correlation between clinical scores and body weights was determined by the Pearson test. (A) The correlation in 2bMOG\textsubscript{1-157}-transduced recipients. (B) The correlation in 2bMOG\textsubscript{FL}-transduced recipients. (C) The correlation in 2bGFP-transduced recipients.
Supplemental Figure 3

The correlation of clinical score and MOG expression in platelets in 2bMOG-transduced recipients after EAE induction. The percentages of MOG positive platelets in transduced recipients were determined by flow cytometry. Data shown were the average platelet-MOG expression from each recipients from at least two time points. After 2bMOG-transduction followed by transplantation and 3 months of bone marrow reconstitution, animals were challenged with MOG$_{35-55}$ peptide emulsified in the complete Freund’s adjuvant along with the intraperitoneal injection of pertussis toxin to induce the development of EAE. Animals were monitored daily between day 5-31 after EAE induction for clinical scores. The correlation between clinical scores and platelet-MOG expression was determined by the Pearson test. (A) The correlation in all recipients, including 2bMOG$_{1-157}$-, 2bMOG$_{FL}$-, and 2bGFP-transduced recipients. (B) The correlation in 2bMOG$_{1-157}$-transduced recipients. (C) The correlation in 2bMOG$_{FL}$-transduced recipients.