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Angela Rivers, Kestis Vaitkus, Vinzon Ibanez, Maria Armila Ruiz, Ramasamy Jagadeeswaran, Yogen Saunthararajah, Shuaiying Cui, James D. Engel, Joseph DeSimone, and Donald Lavelle

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Contributions: AR-designed the experiments and wrote the manuscript. KV-performed all experimental manipulations, care, and handling of baboons, and HbF quantitations by alkali denaturation. VI-performed ChIP analysis and flow cytometry. AMR-performed bisulfite sequence analysis and flow cytometry. RJ, SC, YS, and JDE-performed critical reading of the manuscript. JD-designed the experiments and wrote the manuscript DL-designed the experiments, wrote the manuscript, and performed HPLC analysis.