Supporting Note S3: DNA sequences of probes used in the *in vitro* testing of CD-specific ZFNs.

---8470-8482---

gtatggcccaccataattacccccatactccttacactattcctcatcacccaactaaaaatattaaa
cacaAACTACCACCTACCTccctcaccaaagcccataaaaataaaaaattataacaaaccctgagaac
caaaatgaacgaaaatctgttcgcttcattcattgcccccacaatcctaggcctacccgccgcagtac
tgatcattc

---13447-13459---

gccatactatttatgtgctccgggtccatcatccacaaccttaacaatgaacaagatattcgaaaaat
aggaggactactcaaaaccatacctctcacttcaacctccctcaCCATTGGCAGCCTAGcattagcag
gaatacctttcctcacaggtttctactccaaagaccacatcatcgaaaccgcaaacatatcatacaca
aacgcctgagccctatctattac

---8470-13447---

gtatggcccaccataattacccccatactccttacactattcctcatcacccaactaaaaatattaaa
cacaAACTACCACCTACCTccctcaCCATTGGCAGCCTAGcattagcaggaatacctttcctcacagg
tttctactccaaagaccacatcatcgaaaccgcaaacatatcatacacaaacgcctgagccctatcta
ttac

The binding sites for mtZFN monomers R8-*n*(+) and R13-*n*(-) on either side of the CD are in red and blue, respectively. Black boxes denote the mtDNA tandem repeats. Respective DNA fragments were PCR amplified from a total human DNA sample and the resulting product was cloned into the pCR4 plasmid using ZeroBlunt® TOPO® Cloning Kit (Life Technologies) according to the manufacturer's instructions. For the *in vitro* tests (**Fig. S1**) these pCR4 plasmids containing mtDNA fragments were digested with *Nco*I and end-labeled.