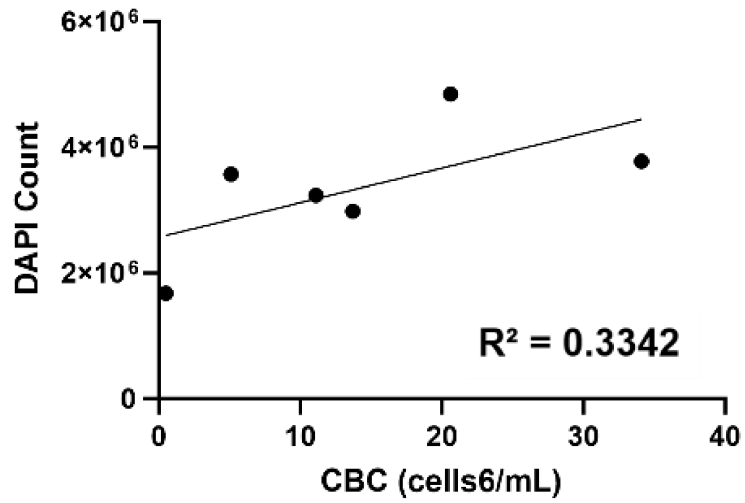


Supplemental Material**Supplemental Table 1. Primer sets used for nPCR for CAR transgene detection at the single cell level.**

Primer Name		Sequence	Tm (°C)	Product size (bp)
STR1 (chr5)	Forward	TTGCAGGAAATGCTGGCATAGAGC	68.5	486
	Reverse	TTCTGTAACATTTTGCCACATACGCC	66.8	
STR2 (chr5)	Forward	TGCAGCCTAATAATTGTTTTCTTTGGG	66	291
	Reverse	AGATTCACCTTTCATAATGCTGGCAGA	64.3	
STR3 (chrY)	Forward	ACCACTGTA CTGACTGTGATTACAC	57.3	495
	Reverse	GCACCTCTTTGGTATCTGAGAAAGT	61.3	
CAR (outer)	Forward	TCAGGGGTCTCATTACCCGA	57.4	717
	Reverse	ATCGTACTCCTCTCTTGGTCCT	56.6	
CAR (inner)	Forward	GCCATTTACTACTGTGCCAAAC	54.5	116
	Reverse	GGATACATAACTCAATTGCGGC	54.5	



Supplemental Figure 1. ZUMA-3 patient sample cell adherence. Correlation plot of total WBC count per cryopreserved sample and DAPI count per slide.

Supplemental Table 2. ZUMA-3 patient sample information. *CBC count taken as a 10ml cellular suspension in PBS.

Patient #	Response	WBC e6/ml*	LYM%	MID%	GRA%
Z3-103-002-012	Early Relapse	20.6	80.4	15.0	4.6
Z3-103-012-002	Primary Refractory	0.5	60.4	6.9	32.7
Z4-103-003-003	Early Relapse	13.7	59.4	27.4	13.2
Z3-103-035-005	Durable Response	5.1	84.7	8.6	6.7
Z3-103-031-006	Durable Response	11.1	78.6	18.1	3.3
Z3-103-002-011	Primary Refractory	34.1	75.9	19.1	5