TABLE S1. Comparative FACS analysis of different expansion <sup>a</sup> protocols for γδ-TCR, CD3, and	
CD8 expression	

	PBMC + zoledronic acid n = 10		PBMC + OKT3 n = 10		MACS <sup>b</sup> CD8 <sup>+</sup> + OKT3 n = 7		MACS <sup>c</sup> γδ⁺ + OKT3 n = 7	
	start	end	start	end	start	end	start	end
γδ⁻ / CD3⁺	59.2 ± 8.14	11.73 ± 9.29	59.2 ± 8.14	74.66 ± 5.85	90.08 ± 5.21	86.43 ± 4	5.32 ± 5.62	2.96 ± 1.89
γδ <sup>+</sup> / CD3 <sup>+</sup>	11.42 ± 6.99	84.61 ± 10.68	11.42 ± 6.99	18.92 ± 6.05	3.68 ± 3.41	7.91 ± 2.99	84.8 ± 10.08	91.65 ± 5.08
γδ- / CD3-	28.47 ± 8.8	2.67 ± 1.6	28.47 ± 8.8	5.93 ± 2.99	5.93 ± 4.41	5.38 ± 3.86	2.99 ± 2.44	2.31 ± 1.53
γδ⁺ / CD3-	0.91 ± 0.51	0.99 ± 0.78	0.91 ± 0.51	0.5 ± 0.27	0.31 ± 0.28	0.28 ± 0.19	6.89 ± 7.71	3.08 ± 1.93
γδ- / CD8+	26.05 ± 6.86	$6.94 \pm 6.39$	$26.05 \pm 6.86$	70.42 ± 7.98	96.15 ± 3.19	90.62 ± 3.43	1.5 ± 1.53	1.77 ± 1.72
γδ* / CD8+	1.51 ± 0.78	15.2 ± 7.92	1.51 ± 0.78	13.19 ± 5.03	2.16 ± 1.17	7.6 ± 2.92	15.92 ± 6.96	15.87 ± 11.82
γδ <sup>.</sup> / CD8 <sup>.</sup>	60.67 ± 6.36	7.81 ± 4.29	60.67 ± 6.36	10.14 ± 3.24	0.45 ± 0.22	1.32 ± 0.71	7.05 ± 6.93	3.84 ± 2.08
γδ⁺ / CD8-	11.77 ± 7.23	70.5 ± 17.4	11.77 ± 7.23	6.25 ± 4.87	1.24 ± 2.42	$0.46 \pm 0.97$	75.52 ± 9.94	78.52 ± 13.52

<sup>a</sup>Expansion duration varied from ten to eleven days

 ${}^{b}CD8^{+}T$  cells were extracted from donor-derived PBMC using magnetic-activated cell sorting  ${}^{c}\gamma\delta^{+}T$  cells were extracted from donor-derived PBMC using magnetic-activated cell sorting dMean ± standard deviation are displayed



# Figure S1: Expression of a gp100/HLA-A2-specific TCR by different T-cell populations after electroporation.

(ZA)-activated PBMC, OKT3-activated PBMC, Zoledronic acid OKT3stimulated MACS-isolated CD8<sup>+</sup> T cells, and OKT3-stimulated MACS-isolated  $\gamma/\delta$  T cells were expanded as described in figure 1. After 10-11 days, these cells were electroporated with RNA coding for the gp100/HLA-A2-specific TCR or with RNA encoding the MCSP-specific CAR. After receptor transfer, T cells were rested for one day and subsequently cryopreserved. After thawing TCR expression was detected using a PE-conjugated MHC-Dextramer HLA-A\*0201/YLEPGPVTV (black lines). CAR-transfected T cells served as negative controls (neg.; filled grey histograms). Presented histograms are representatives out of three independent experiments.

_								
		conditions <sup>#</sup>	4h	24h	48h	72h	96h	120h
a 🗖		PBMC + ZA (TCR vs. CAR)	ns	***	*	ns	ns	ns
5	ICR VS CAR	<b>MACS γ/δ + OKT3</b> (TCR vs. CAR)	***	***	***	***	**	*
h	CAR vs TCR <sup>b</sup>	PBMC + ZA (CAR vs. TCR)	**	***	**	*	*	0.0950
		<b>MACS γ/δ + OKT3</b> (CAR vs. TCR)	***	***	***	***	***	***
i		PBMC + OKT3 (TCR vs. CAR)	0.0774	***	ns	ns	ns	ns
•	ICK VS CAR	MACS CD8 + OKT3 (TCR vs. CAR)	**	***	**	ns	ns	ns
i _		PBMC + OKT3 (CAR vs. TCR)	*	***	**	***	***	***
1	CAR VS ICR	MACS CD8 + OKT3 (CAR vs. TCR)	***	**	***	***	***	***

# TABLE S2: P-values corresponding to figure 2 g-j calculated by unpaired Student's t-test

time points

Significance was calculated by unpaired student's t test from 4 independent experiments, \*  $p \le 0.05$ , \*\*  $p \le 0.01$ , \*\*\*  $p \le 0.001$ , ns p > 0.1, p-values between 0.05 and 0.1 are specified. \*Conditions: PBMC + ZA = zoledronic-acid expanded PBMC; PBMC + OKT3 = OKT3-expanded PBMC; MACS CD8 + OKT3 = magnetic-activated cell sorting isolated CD8 T cells

expanded with OKT3;  $\gamma\delta$  + OKT3 = magnetic-activated cell sorting isolated  $\gamma\delta$  T cells expanded with OKT3; all conditions were either transfected with the gp100 TCR or the MCSP CAR

<sup>a</sup>TCR vs CAR: TCR expression on TCR-transfected T cells against TCR expression on CAR-transfected T cells

<sup>b</sup>CAR vs TCR: CAR expression on CAR-transfected T cells against CAR expression on TCR-transfected T cells

### TABLE S3: P-values corresponding to figure 3 calculated by unpaired Student's t-test

cytokines

	TARGET		CONDITION	IL-2	TNF	IFNγ
			Mel526 PBMC + 74 (mock vs. TCR)	ns	ns	ns
а			Mel526 PBMC + OKT3 (mock vs. TCR)	ns	ns	ns
		MOCK VS TCR	Mel526 MACS CD8 + OKT3 (mock vs. TCR)	ns	ns	ns
			Mel526 MACS γ/δ + OKT3 (mock vs. TCR)	ns	ns	ns
	Mel526		Mel526 PBMC + ZA vs. PBMC + OKT3 (TCR vs. TCR)	ns	ns	ns
			Mel526 PBMC + ZA vs. MACS CD8 + OKT3 (TCR vs. TCR)	ns	ns	ns
		TCR vs TCR	Mel526 PBMC + ZA vs. MACS $\gamma/\delta$ + OKT3 (TCR vs. TCR)	ns	ns	ns
				ns	ns	ns
			Mel526 MACS CD8 + OKT3 vs. MACS v/6 + OKT3 (TCR vs. TCR)	ns	ns	ns
			Mel526+gp100 PBMC+ ZA (mock vs. TCR)	0.0713	***	***
			Mel526+gp100 PBMC+ OKT3 (mock vs. TCR)	***	***	***
		HOCK VS ICK	Mel526+gp100 MACS CD8 + OKT3 (mock vs. TCR)	***	***	***
			Mel526+gp100 MACS γ/δ + OKT3 (mock vs. TCR)	*	*	***
	Mel526 + ap100		Mel526+gp100 PBMC + ZA vs. PBMC + OKT3 (TCR vs. TCR)	***	**	***
	5,		Mel526+gp100 PBMC + ZA vs. MACS CD8 + OKT3 (TCR vs. TCR)	***	ns	**
		TCR vs TCR	Mel526+gp100 PBMC + ZA vs. MACS $\gamma/\delta$ + OKT3 (TCR vs. TCR)	ns	ns	***
			Mel526 +gp100 PBMC + OKT3 VS. MACS CD8 + OKT3 (TCR VS. TCR)	ns	ns **	0.0949
			Mel526+gp100 PBMC + UK13 VS. MACS V/0 + UK13 (TCR VS. TCR) Mel526+gp100 MACS CD8 + OKT3 VS. MACS V/0 + OKT3 (TCR VS. TCR)	***	*	***
			A375M PBMC+ 74 (mock vs. TCR)	ns	ns	ns
			A375M PBMC+ OKT3 (mock vs. TCR)	ns	ns	ns
		mock vs TCR	A375M MACS CD8 + OKT3 (mock vs. TCR)	ns	ns	ns
			A375M MACS γ/δ + OKT3 (mock vs. TCR)	ns	ns	ns
	<b>Δ375M</b>		A375M PBMC + ZA vs. PBMC + OKT3 (TCR vs. TCR)	ns	ns	ns
	Advoin		A375M PBMC + ZA vs. MACS CD8 + OKT3 (TCR vs. TCR)	ns	ns	ns
		TCR vs TCR	A375M PBMC + ZA vs. MACS γ/δ + OKT3 (TCR vs. TCR)	ns	ns	ns
			A375M PBMC + OKT3 vs. MACS CD8 + OKT3 (TCR vs. TCR)	ns	ns	ns
			A375M PBMC + OKT3 vs. MACS v/8 + OKT3 (ICR vs. ICR)	ns	ns	ns
			A375M MACS CD0 + OK13 VS. MACS Y/0 + OK13 (TCR VS. TCR)	***	***	***
			A375M+gp100 PBMC+ 2A (mock vs. TCR)	***	***	***
		mock vs TCR	A375M+gp100 MACS CD8 + OKT3 (mock vs. TCR)	***	***	***
			A375M+gp100 <b>MACS γ/δ + OKT3</b> (mock vs. TCR)	**	***	***
	$A375M \pm an100$		A375M+gp100 PBMC + ZA vs. PBMC + OKT3 (TCR vs. TCR)	***	***	***
	Acronic gproc	TCR vs TCR	A375M+gp100 PBMC + ZA vs. MACS CD8 + OKT3 (TCR vs. TCR)	***	*	**
			A375M+gp100 PBMC + ZA vs. MACS γ/δ + OKT3 (TCR vs. TCR)	***	***	***
			A375M+gp100PBMC + OKT3 vs. MACS CD8 + OKT3 (TCR vs. TCR)	ns	**	ns
			A375M+gp100 PBMC + OKT3 vs. MACS y/δ + OKT3 (TCR vs. TCR)	***	***	***
			A375M+gp100 MACS CD6+ OKT3 VS. MACS 9/0+ OKT3 (ICR VS. ICR) Mel526 DBMC+ 7A (mock vs. CAD)	*	**	***
b			Mel526 PBMC+ OKT3 (mock vs. CAR)	***	***	***
		mock vs CAR	Mel526 MACS CD8 + OKT3 (mock vs. CAR)	***	***	***
	Mel526		Mel526 MACS v/o +O KT3 (mock vs. CAR)	ns	0.0678	**
			Mel526 PBMC + ZA vs. PBMC + OKT3 (CAR vs. CAR)	***	***	***
			Mel526 PBMC + ZA vs. MACS CD8 + OKT3 (CAR vs. CAR	***	***	**
		045	Mel526 PBMC + ZA vs. MACS v/o + OKT3 (CAR vs. CAR)	*	*	**
		CAR VS CAR	Mel526 PBMC + OKT3 vs. MACS CD8 + OKT3 (CAR vs. CAR)	ns	ns	ns
			Mel526 PBMC + OKT3 vs. MACS γ/δ + OKT3 (CAR vs. CAR)	***	***	***
			Mel526 MACS CD8 + OKT3 vs. MACS y/o + OKT3 (CAR vs. CAR)	***	***	***
			T2.A1 PBMC + ZA (mock vs. CAR)	ns	ns	ns
		mock vs CAP	T2.A1 PBMC + OKT3 (mock vs. CAR)	ns	ns	ns
		mook to oran	T2.A1 MACS CD8 + OKT3 (mock vs. CAR)	ns	ns	ns
			T2.A1 MACS γ/δ + OKT3 (mock vs. CAR)	ns	ns	ns
	T2.A1		T2.A1 PBMC + ZA vs. PBMC + OKT3 (CAR vs. CAR)	ns	ns	ns
			T2.A1 PBMC + ZA vs. MACS CD8 + OKT3 (CAR vs. CAR)	ns	ns	ns
		CAR vs CAR	T2.A1 PBMC + ZA vs. MACS γ/δ + OKT3 (CAR vs. CAR)	ns	ns	ns
			T2.A1 PBMC + OKT3 vs. MACS CD8 + OKT3 (CAR vs. CAR)	ns	ns	ns
			T2.A1 <b>PBMC + OKT3 vs. MACS γ/δ + OKT3</b> (CAR vs. CAR)	ns	ns	ns
			12.AT MACS CD8 + OK13 vs. MACS Y/6 + OKT3 (CAR vs. CAR)	ns	ns	ns
			A375M PBMC+ ZA (MOCK VS. GAR)	*	***	***
		mock vs CAR		***	***	***
				*	***	***
				***	***	***
	A375M		AS75W PBMC + ZA VS. PBMC + UK13 (CAR VS. CAR)	***	***	**
			AS75M PRMC + ZA VS. MACS C/0 + OK 13 (CAR VS. CAR)	**	***	**
		CAR vs CAR	A375M PBMC + OKT3 vs. MACS CD8 + OKT3 (CAR vs. CAR)	ns	ns	ns
			A375M PBMC + OKT3 vs. MACS $v/\delta$ + OKT3 (CAR vs. CAR)	***	***	***
			A375M MACS CD8 + OKT3 vs. MACS v/8 + OKT3 (CAR vs. CAR)	***	***	***

Significance was calculated by unpaired student's t test from 7 to 10 independent experiments, \*  $p\leq0.05$ , \*\*  $p\leq0.01$ , explosed of the second student's t test from 7 to 10 independent experiments, \*  $p\leq0.05$ , \*\*  $p\leq0.01$ , explosed of the second student's t test from 7 to 10 independent experiments, \*  $p\leq0.05$ , \*\*  $p\leq0.01$ , explosed of the second student's t test from 7 to 10 independent experiments, \*  $p\leq0.05$ , \*\*  $p\leq0.05$ , \*\*  $p\leq0.01$ , explosed of the second student's t test from 7 to 10 independent experiments, \*  $p\leq0.05$ , \*\*  $p\leq0.01$ , explosed of the second student's t test from 7 to 10 independent experiments, \*  $p\leq0.05$ , \*\*  $p\leq0.01$ , explosed PBMC; POLT = magnetic-activated cell sorting isolated PBMC; PBMC + OKT3 = OKT3 = POLT3 = POL



# Figure S2: Zoledronic acid-expanded $\gamma/\delta$ T cells retain their cytokine secretory capacity after depletion of $\gamma\delta$ - cells.

a Donor-derived PBMC were expanded with ZA (PBMC + ZA) as explained above (Fig. 1). Following 10 days of expansion, untouched  $\gamma/\delta$  T cells were isolated from an aliquot of stimulated cells via negative selection using the TCR  $v/\delta$  T Cell Isolation Kit (after depletion). Subsequently, a  $\gamma\delta$  and CD3 double staining was employed to flowcytometrically verify the successful depletion procedure. **b+c** On day 11, negatively isolated  $\gamma/\delta$  T cells (after depletion, grey bars) and the remaining ZA-expanded T cells (black bars) were electroporated with RNA coding for the gp100/A2-specific TCR (b) or with RNA encoding the MCSP-specific CAR (c). T cells electroporated without RNA (mock) served as controls (b+c). Antigenspecific cytokine secretion was determined as described above (Fig. 3). Data represent means SEM from 4 independent ± experiments. P values calculated by unpaired Student's t test are presented in additional file 6: Table ST4.



## TABLE S4: P-values corresponding to figure S2b and c calculated by unpaired Student's t-test

cytokines

	TARGET		CONDITION	IL-2	TNF	IFNγ	
h		mock vs TCR	Mel526 PBMC + ZA (mock vs. TCR)	ns	ns	ns	
И	Mel526		Mel526 after depletion (mock vs. TCR)	ns	ns	ns	
		TCR vs TCR	Mel526 PBMC + ZA vs. after depletion (TCR vs. TCR)	ns	ns	ns	
		mock vs TCR	Mel526+gp100 PBMC+ ZA (mock vs. TCR)	0.0713	***	***	
	Mel526 + gp100	mock vs roll	Mel526+gp100 after depletion (mock vs. TCR)	ns	**	**	
		TCR vs TCR	Mel526+gp100 PBMC + ZA vs. PBMC + after depletion (TCR vs. TCR)	ns	ns	*	
		maak va TCB	A375M PBMC+ ZA (mock vs. TCR)	ns	ns	ns	
	A375M	A375M HIOCK VS TCK	A375M after depletion (mock vs. TCR)	ns	ns	ns	
		TCR vs TCR	A375M PBMC + ZA vs. after depletion (TCR vs. TCR)	ns	ns	ns	
			A375M+gp100 PBMC+ ZA (mock vs. TCR)	***	***	***	
	A375M + gp100	HOCK VS TOR	A375M+gp100 after depletion (mock vs. TCR)	0.0682	***	***	
		TCR vs TCR	A375M+gp100 PBMC + ZA vs. after depletion (TCR vs. TCR)	***	***	***	
~	Mel526	Mel526	maak va CAP	Mel526 PBMC+ ZA (mock vs. CAR)	*	**	***
C			MOCK VS CAR	Mel526 after depletion (mock vs. CAR)	ns	0.0794	*
		CAR vs CAR	Mel526 PBMC + ZA vs. after depletion (CAR vs. CAR)	0.0853	0.0786	0.0603	
		maak va CAB	T2.A1 PBMC + ZA (mock vs. CAR)	ns	ns	ns	
	T2.A1	T2.A1 MOCK VS CAR	T2.A1 after depletion (mock vs. CAR)	ns	ns	ns	
		CAR vs CAR	T2.A1 PBMC + ZA vs. after depletion (CAR vs. CAR)	ns	ns	ns	
		maak va CAP	A375M PBMC+ ZA (mock vs. CAR)	*	***	***	
	A375M	MOCK VS CAR	A375M after depletion (mock vs. CAR)	ns	***	*	
		CAR vs CAR	A375M PBMC + ZA vs. after depletion (CAR vs. CAR)	*	**	*	

Significance was calculated by unpaired student's t test from 4 independent experiments, \*  $p \le 0.05$ , \*\*  $p \le 0.01$ , \*\*\*  $p \le 0.01$ , ns p > 0.1, p-values between 0.05 and 0.1 are specified. Conditions: PBMC + ZA = zoledronic-acid expanded PBMC; after depletion = negatively selected  $\gamma\delta$  T cells from ZA-expanded PBMC; all conditions were either electroporated with no RNA (mock) or transfected with the gp100 TCR or the MCSP CAR

### TABLE S5: P-values corresponding to figure 5 a and b calculated by unpaired Student's t-test

а

b

effector to target ratio

TARGET		CONDITION	60 : 1	20 : 1	6:1	2:1
		Mel526 PBMC + ZA (mock vs. TCR) Mel526 PBMC + OKT3 (mock vs. TCR)	**	ns *	ns	ns
	mock vs TCR	Mel526 MACS CD8 + OKT3 (mock vs. TCR)	***	**	ns	ns
		Mel526 MACS γ/δ + OKT3 (mock vs. TCR)	0.0790	0.0621	ns	ns
		Mel526 PBMC + ZA vs. PBMC + OKT3 (mock vs. mock)	ns	ns *	ns *	ns
		Mel526 PBMC + ZA VS. MACS CD8 + OK 13 (mock VS. mock) Mel526 PBMC + ZA VS. MACS V/A + OK 13 (mock VS. mock)	ns	ns	ns	ns
	mock vs mock	Mel526 PBMC + OKT3 vs. MACS CD8 + OKT3 (mock vs. mock)	**	ns	ns	ns
Mel526		Mel526 PBMC + OKT3 vs. MACS γ/δ + OKT3 (mock vs. mock)	ns	ns	ns	ns
		Mel526 MACS CD8 + OKT3 vs. MACS γ/δ + OKT3 (mock vs. mock)	**	ns	ns	ns
		Mel526 PBMC + ZA vs. PBMC + OKT3 (TCR vs. TCR)	ns	ns	ns	ns
		Mel526 PBMC + ZA vs. MACS CD8 + OK 13 (TCR vs. TCR) Mel526 PBMC + ZA vs. MACS v/8 + OK 13 (TCR vs. TCR)	ns	ns	ns	ns
	TCR vs TCR	Mel526 PBMC + OKT3 vs. MACS CD8 + OKT3 (TCR vs. TCR)	ns	ns	ns	ns
		Mel526 PBMC + OKT3 vs. MACS γ/δ + OKT3 (TCR vs. TCR)	ns	ns	ns	ns
		Mel526 MACS CD8 + OKT3 vs. MACS γ/δ + OKT3 (TCR vs. TCR)	ns	ns	ns	ns
		A375M PBMC+ ZA (mock vs. TCR)	ns	ns	ns	ns
	mock vs TCR	A375M PBMC+ OK13 (MOCK VS. TCR) A375M MACS CD8 + OKT3 (mock vs. TCR)	ns	ns	ns	ns
		A375M MACS v/o + OKT3 (mock vs. TCR)	ns	ns	ns	ns
		A375M PBMC + ZA vs. PBMC + OKT3 (mock vs. mock)	*	ns	*	ns
		A375M PBMC + ZA vs. MACS CD8 + OKT3 (mock vs. mock)	*	0.0693	0.0560	ns
	mock vs mock	A375M PBMC + ZA vs. MACS y/o + OKT3 (mock vs. mock)	ns	ns	ns	ns
A375M		A375M PBMC + OKT3 vs. MACS CD8 + OKT3 (mock vs. mock)	ns	ns	ns	ns
		A375M MACS CD8 + OKT3 vs. MACS v/δ + OKT3 (mock vs. mock) A375M MACS CD8 + OKT3 vs. MACS v/δ + OKT3 (mock vs. mock)	ns	ns	ns	ns
		A375M PBMC + ZA vs. PBMC + OKT3 (TCR vs. TCR)	ns	ns	ns	ns
		A375M PBMC + ZA vs. MACS CD8 + OKT3 (TCR vs. TCR)	ns	ns	ns	ns
	TCR vs TCR	A375M PBMC + ZA vs. MACS y/ð + OKT3 (TCR vs. TCR)	ns	ns	ns	ns
		A375M PBMC + OKT3 vs. MACS CD8 + OKT3 (TCR vs. TCR)	ns	ns	ns	ns
		A375M PBMC + OK13 vs. MACS V/0 + OK13 (ICR Vs. ICR) A375M MACS CD8 + OKT3 ve. MACS V/0 + OKT3 (TCD ve. TCD)	ns *	ns	ns	ns
		A375M+gp100 PBMC+ ZA (mock vs. TCR)	***	***	ns	ns
	mock vs TCR	A375M+gp100 PBMC+ OKT3 (mock vs. TCR)	***	***	**	ns
	mock vs rok	A375M+gp100 MACS CD8 + OKT3 (mock vs. TCR)	***	***	*	ns
		A375M+gp100 MACS y/8 + OKT3 (mock vs. TCR)	***	***	0.0896	ns *
		A375M+gp100 PBMC + ZA vs. MACS CD8 + OKT3 (mock vs. mock)	***	**	*	0.0527
	mock vs mock	A375M+gp100 PBMC + ZA vs. MACS γ/δ + OKT3 (mock vs. mock)	ns	ns	ns	ns
A375M + gp100	mock vs mock	A375M+gp100PBMC + OKT3 vs. MACS CD8 + OKT3 (mock vs. mock)	**	ns	ns	ns
51		A375M+gp100 PBMC + OKT3 vs. MACS v/δ + OKT3 (mock vs. mock) A375M+gp100 MACS CD8 + OKT3 vs. MACS v/δ + OKT3 (mock vs. mock)	***	*	0.0709	ns
		A375M+gp100 PBMC + ZA vs. PBMC + OKT3 (TCR vs. TCR)	ns	ns	ns	ns
		A375M+gp100 PBMC + ZA vs. MACS CD8 + OKT3 (TCR vs. TCR)	ns	ns	ns	ns
	TCR vs TCR	A375M+gp100 <b>PBMC + ZA vs. MACS γ/δ + OKT3</b> (TCR vs. TCR)	ns	ns	ns	ns
		A375M+gp100PBMC + OK13 vs. MACS CD8 + OK13 (TCR vs. TCR) A375M+gp100 PBMC + OK13 vs. MACS v/A + OK13 (TCR vs. TCR)	ns 0.0658	ns	ns	ns
		A375M+gp100 MACS CD8 + OKT3 vs. MACS γ/δ + OKT3 (TCR vs. TCR)	ns	ns	ns	ns
		Mel526 PBMC+ ZA (mock vs. CAR)	***	**	ns	ns
	mock vs CAR	Mel526 PBMC+ OKT3 (mock vs. CAR)	***	***	***	0.0645
		Mel526 MACS CD8 + OKT3 (mock vs. CAR)	*	**	*	ns
		Mel526 DRMC + ZA ve DRMC + OKT3 (CAR)	ne	0.0037	ns	ns
Mel526		Melozo P BMC + ZA vs. PBMC + OKTS (GARVS. GAR) Melozo PBMC + ZA vs. MACS CD8 + OKTS (GARVs. GAR)	ns	ns	ns	ns
	CAR vs CAR	Mel526 PBMC + ZA vs. MACS γ/δ + OKT3 (CAR vs. CAR)	ns	ns	ns	ns
	OAR VS OAR	Mel526 PBMC + OKT3 vs. MACS CD8 + OKT3 (CAR vs. CAR)	ns	ns	ns	ns
		Mel526 PBMC + OKT3 vs. MACS $\gamma/\delta$ + OKT3 (CAR vs. CAR)	ns	0.0652	ns	ns
		T2 A1 <b>DBMC + 7A</b> (mock vs. CAR)	ns	ns	ns	ns
		T2.A1 PBMC + OKT3 (mock vs. CAR)	ns	ns	0.0880	*
	MOCK VS CAR	T2.A1 MACS CD8 + OKT3 (mock vs. CAR)	**	*	ns	ns
		T2.A1 MACS γ/δ + OKT3 (mock vs. CAR)	ns	ns	ns	ns
		T2.A1 PBMC + ZA vs. PBMC + OKT3 (mock vs. mock)	*	*	ns	ns
		T2.A1 PBMC + ZA vs. MACS CD8 + OKT3 (mock vs. mock)	***	**	*	ns
						ns
	mock vs mock	T2.A1 <b>PBMC + ZA vs. MACS <math>\gamma/\delta</math> + OKT3 (mock vs. mock)</b>	ns	ns	ns	200
T2.A1	mock vs mock	T2.A1 PBMC + ZA vs. MACS v/δ + OKT3 (mock vs. mock) T2.A1 PBMC + OKT3 vs. MACS CD8 + OKT3 (mock vs. mock) T2.A1 PBMC + OKT3 vs. MACS v/δ + OKT3 (mock vs. mock)	ns 0.0792 *	ns ns	ns	ns
T2.A1	mock vs mock	T2.A1 PBMC + ZA vs. MACS y/δ + OKT3 (mock vs. mock) T2.A1 PBMC + OKT3 vs. MACS CD8 + OKT3 (mock vs. mock) T2.A1 PBMC + OKT3 vs. MACS y/δ + OKT3 (mock vs. mock) T2.A1 MACS CD8 + OKT3 vs. MACS y/δ + OKT3 (mock vs. mock)	ns 0.0792 *	ns ns ns *	ns ns ns 0.0644	ns ns 0.0734
T2.A1	mock vs mock	T2.A1 PBMC + ZA vs. MACS γ/δ + OKT3 (mock vs. mock)   T2.A1 PBMC + OKT3 vs. MACS CD8 + OKT3 (mock vs. mock)   T2.A1 PBMC + OKT3 vs. MACS γ/δ + OKT3 (mock vs. mock)   T2.A1 MACS CD8 + OKT3 vs. MACS γ/δ + OKT3 (mock vs. mock)   T2.A1 PBMC + ZA vs. PBMC + OKT3 (CAR vs. CAR)	ns 0.0792 * **	ns ns ns *	ns ns 0.0644 ns	ns ns 0.0734 ns
T2.A1	mock vs mock	T2.A1 PBMC + ZA vs. MACS γ/δ + OKT3 (mock vs. mock)   T2.A1 PBMC + OKT3 vs. MACS CD8 + OKT3 (mock vs. mock)   T2.A1 PBMC + OKT3 vs. MACS γ/δ + OKT3 (mock vs. mock)   T2.A1 MACS CD8 + OKT3 vs. MACS γ/δ + OKT3 (mock vs. mock)   T2.A1 PBMC + ZA vs. PBMC + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS CD8 + OKT3 (CAR vs. CAR)	ns 0.0792 * ** ns ns	ns ns ns * ns ns	ns ns 0.0644 ns ns	ns ns 0.0734 ns ns
T2.A1	mock vs mock	T2.A1 PBMC + ZA vs. MACS γ/δ + OKT3 (mock vs. mock)   T2.A1 PBMC + OKT3 vs. MACS CD8 + OKT3 (mock vs. mock)   T2.A1 PBMC + OKT3 vs. MACS γ/δ + OKT3 (mock vs. mock)   T2.A1 MACS CD8 + OKT3 vs. MACS γ/δ + OKT3 (mock vs. mock)   T2.A1 PBMC + ZA vs. PBMC + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS CD8 + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS γ/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS γ/δ + OKT3 (CAR vs. CAR)	ns 0.0792 * ** ns ns ns ns	ns ns * ns ns ns	ns ns 0.0644 ns ns ns	ns ns 0.0734 ns ns ns
T2.A1	mock vs mock	T2.A1 PBMC + ZA vs. MACS γ/δ + OKT3 (mock vs. mock)   T2.A1 PBMC + OKT3 vs. MACS CD8 + OKT3 (mock vs. mock)   T2.A1 PBMC + OKT3 vs. MACS γ/δ + OKT3 (mock vs. mock)   T2.A1 MACS CD8 + OKT3 vs. MACS γ/δ + OKT3 (mock vs. mock)   T2.A1 MACS CD8 + OKT3 vs. MACS γ/δ + OKT3 (mock vs. mock)   T2.A1 PBMC + ZA vs. PBMC + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS γ/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS γ/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS γ/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + OKT3 vs. MACS γ/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + OKT3 vs. MACS CD8 + OKT3 (CAR vs. CAR)   T2.A1 PBMC + OKT3 vs. MACS V/δ + OKT3 (CAR vs. CAR)	ns 0.0792 * ** ns ns ns ns	ns ns * ns ns ns	ns ns 0.0644 ns ns ns ns	ns ns 0.0734 ns ns 0.0919
T2.A1	mock vs mock	T2.A1 PBMC + ZA vs. MACS γ/δ + OKT3 (mock vs. mock)   T2.A1 PBMC + OKT3 vs. MACS CD8 + OKT3 (mock vs. mock)   T2.A1 PBMC + OKT3 vs. MACS γ/δ + OKT3 (mock vs. mock)   T2.A1 PBMC + OKT3 vs. MACS γ/δ + OKT3 (mock vs. mock)   T2.A1 PBMC + ZA vs. PBMC + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS γ/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS γ/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS γ/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + OKT3 vs. MACS CD8 + OKT3 (CAR vs. CAR)   T2.A1 PBMC + OKT3 vs. MACS V/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + OKT3 vs. MACS V/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + OKT3 vs. MACS V/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + OKT3 vs. MACS V/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + OKT3 vs. MACS V/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + OKT3 vs. MACS V/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + OKT3 vs. MACS V/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + OKT3 vs. MACS V/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + OKT3 vs. MACS V/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + OKT3 vs. MACS V/δ + OKT3 (CAR vs. CAR)	ns 0.0792 * ** ns ns ns ns ns ns ns	ns ns ns ns ns ns ns ns ns	ns ns 0.0644 ns ns ns ns ns ns	ns ns 0.0734 ns ns 0.0919 ns ps
T2.A1	mock vs mock	T2.A1 PBMC + ZA vs. MACS y/ō + OKT3 (mock vs. mock)   T2.A1 PBMC + OKT3 vs. MACS y/ō + OKT3 (mock vs. mock)   T2.A1 PBMC + OKT3 vs. MACS y/ō + OKT3 (mock vs. mock)   T2.A1 PBMC + CAKT3 vs. MACS y/ō + OKT3 (mock vs. mock)   T2.A1 PBMC + ZA vs. PBMC + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS D8 + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS y/ō + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS Y/ō + OKT3 (CAR vs. CAR)   T2.A1 PBMC + CAT3 vs. MACS CD8 + OKT3 (CAR vs. CAR)   T2.A1 PBMC + OKT3 vs. MACS Y/ō + OKT3 (CAR vs. CAR)   T2.A1 PBMC + OKT3 vs. MACS Y/ō + OKT3 (CAR vs. CAR)   T2.A1 PBMC + OKT3 vs. MACS Y/ō + OKT3 (CAR vs. CAR)   T2.A1 PBMC + OKT3 vs. MACS Y/ō + OKT3 (CAR vs. CAR)   T2.A1 PBMC + OKT3 vs. MACS Y/ō + OKT3 (CAR vs. CAR)   T2.A1 PBMC + OKT3 vs. MACS Y/ō + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. CAR + OKT3 vs. MACS Y/ō + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA (mock vs. CAR)   T2.A1 PBMC + ZA (mock vs. CAR)	ns 0.0792 * ** ns ns ns ns ns ns **	ns ns ns ns ns ns ns ns ns ns	ns ns 0.0644 ns ns ns ns ns ns ns ns	ns ns 0.0734 ns ns 0.0919 ns ns ns
T2.A1	mock vs mock	T2.A1 PBMC + ZA vs. MACS γ/δ + OKT3 (mock vs. mock)   T2.A1 PBMC + OKT3 vs. MACS CD8 + OKT3 (mock vs. mock)   T2.A1 PBMC + OKT3 vs. MACS γ/δ + OKT3 (mock vs. mock)   T2.A1 PBMC + CAT3 vs. MACS γ/δ + OKT3 (mock vs. mock)   T2.A1 PBMC + ZA vs. PBMC + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS γ/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS γ/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + CAT3 vs. MACS γ/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + CAT3 vs. MACS γ/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + OKT3 vs. MACS γ/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + OKT3 vs. MACS γ/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + OKT3 vs. MACS γ/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS γ/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS γ/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA (mock vs. CAR)   A375M PBMC+ ZA (mock vs. CAR)   A375M PBMC+ CAT3 (mock vs. CAR)	ns 0.0792 • • • • • • • • • • • • • • • •	ns ns ns ns ns ns ns ns ns 	ns ns 0.0644 ns ns ns ns ns ns ns ns ns 	ns ns 0.0734 ns ns 0.0919 ns ns ns ns rs
T2.A1	mock vs mock	T2.A1 PBMC + ZA vs. MACS γ/δ + OKT3 (mock vs. mock)   T2.A1 PBMC + OKT3 vs. MACS CD8 + OKT3 (mock vs. mock)   T2.A1 PBMC + OKT3 vs. MACS γ/δ + OKT3 (mock vs. mock)   T2.A1 PBMC + OKT3 vs. MACS γ/δ + OKT3 (mock vs. mock)   T2.A1 PBMC + ZA vs. PBMC + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS Q/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS γ/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + CA vs. MACS γ/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + CA vs. MACS γ/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + CA vs. MACS γ/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + OKT3 vs. MACS γ/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + CA vs. Vs. MACS γ/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS γ/δ + OKT3 (CAR vs. CAR)   A375M PBMC+ ZA (mock vs. CAR)   A375M PBMC+ OKT3 (mock vs. CAR)   A375M MACS CD8 + OKT3 (mock vs. CAR)   A375M MACS CD8 + OKT3 (mock vs. CAR)	ns 0.0792 * * ns ns ns ns ns ns * *	ns ns ns ns ns ns ns ns ns 	ns ns 0.0644 ns ns ns ns ns ns ns ns 	ns ns 0.0734 ns ns 0.0919 ns ns ns  ns
T2.A1	mock vs mock	T2.A1 PBMC + ZA vs. MACS γ/δ + OKT3 (mock vs. mock)   T2.A1 PBMC + OKT3 vs. MACS CD8 + OKT3 (mock vs. mock)   T2.A1 PBMC + OKT3 vs. MACS γ/δ + OKT3 (mock vs. mock)   T2.A1 PBMC + CAKT3 vs. MACS γ/δ + OKT3 (mock vs. mock)   T2.A1 PBMC + ZA vs. PBMC + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS OB + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS OB + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS V/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + CAT3 vs. MACS CD8 + OKT3 (CAR vs. CAR)   T2.A1 PBMC + CAT3 vs. MACS V/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + OKT3 vs. MACS V/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + CAT3 vs. MACS V/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS V/δ + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA (mock vs. CAR)   A375M PBMC+ ZA (mock vs. CAR)   A375M PBMC+ OKT3 (mock vs. CAR)   A375M MACS CD8 + OKT3 (mock vs. CAR)   A375M MACS V/δ + OKT3 (mock vs. CAR)   A375M MACS V/δ + OKT3 (mock vs. CAR)   A375M MACS V/δ + OKT3 (mock vs. CAR)	ns 0.0792 • • • • • • • • • • • •	ns ns ns ns ns ns ns ns  	ns ns 0.0644 ns ns ns ns ns ns ns  ns	ns ns 0.0734 ns ns 0.0919 ns ns ns        
T2.A1	mock vs mock	T2.A1 PBMC + ZA vs. MACS y/ō + OKT3 (mock vs. mock)   T2.A1 PBMC + OKT3 vs. MACS CD8 + OKT3 (mock vs. mock)   T2.A1 PBMC + OKT3 vs. MACS y/ō + OKT3 (mock vs. mock)   T2.A1 PBMC + CAKT3 vs. MACS y/ō + OKT3 (mock vs. mock)   T2.A1 PBMC + ZA vs. PBMC + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS D8 + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS OB + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS D8 + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS Y/ō + OKT3 (CAR vs. CAR)   T2.A1 PBMC + OKT3 vs. MACS Y/ō + OKT3 (CAR vs. CAR)   T2.A1 PBMC + OKT3 vs. MACS Y/ō + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS Y/ō + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA (mock vs. CAR)   A375M PBMC+ ZA (mock vs. CAR)   A375M MACS CD8 + OKT3 (mock vs. CAR)   A375M MACS Y/ō + OKT3 (mock vs. CAR)   A375M MACS Y/ō + OKT3 (mock vs. CAR)   A375M PBMC + ZA vs. PBMC + OKT3 (mock vs. CAR)   A375M PBMC + ZA vs. PBMC + OKT3 (mock vs. CAR)   A375M PBMC + ZA vs. PBMC + OKT3 (mock vs. CAR)	ns 0.0792 • • • • • • • • • • • • • • • •	ns ns ns ns ns ns ns ns   	ns ns 0.0644 ns ns ns ns ns ns 	ns ns 0.0734 ns ns 0.0919 ns ns ns        
T2.A1 A375M	mock vs mock	T2.A1 PBMC + ZA vs. MACS y/ō + OKT3 (mock vs. mock)   T2.A1 PBMC + OKT3 vs. MACS CD8 + OKT3 (mock vs. mock)   T2.A1 PBMC + OKT3 vs. MACS y/ō + OKT3 (mock vs. mock)   T2.A1 PBMC + CAKT3 vs. MACS y/ō + OKT3 (mock vs. mock)   T2.A1 PBMC + ZA vs. PBMC + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS y/ō + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS Q/b + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS Q/b + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS Y/ō + OKT3 (CAR vs. CAR)   T2.A1 PBMC + CAT3 vs. MACS Y/ō + OKT3 (CAR vs. CAR)   T2.A1 PBMC + OKT3 vs. MACS Y/ō + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA (mock vs. CAR)   A375M PBMC+ ZA (mock vs. CAR)   A375M PBMC + ZA vs. PBMC + OKT3 (mock vs. CAR)   A375M MACS CD8 + OKT3 (mock vs. CAR)   A375M PBMC + ZA vs. PBMC + OKT3 (CAR vs. CAR)   A375M PBMC + ZA vs. PBMC + OKT3 (CAR vs. CAR)   A375M PBMC + ZA vs. PBMC + OKT3 (CAR vs. CAR)   A375M PBMC + ZA vs. MACS CD8 + OKT3 (CAR vs. CAR)   A375M PBMC + ZA vs. MACS CD8 + OKT3 (CAR vs. CAR)   A375M PBMC + ZA vs. MACS CD8 + OKT3 (CAR vs. CAR)   A375M PBMC + ZA vs. MACS CD8 + OKT3 (CAR vs. CAR)   A375M PBMC + ZA vs. MACS CD8 + OKT3 (CAR vs. CAR)   A375M PBMC + ZA vs. MACS CD8 + OKT3 (CAR vs. CAR)   A375M PBMC + ZA vs. MACS CD8 + OKT3 (CAR vs. CAR) </td <td>ns 0.0792 • • • • • • • • • • • • • • • •</td> <td>ns ns ns ns ns ns ns ns ns</td> <td>ns ns 0.0644 ns ns ns ns ns ns ns ns ns ns ns ns ns</td> <td>ns ns 0.0734 ns ns 0.0919 ns ns ns ms ns ns ns ns ns ns ns ns</td>	ns 0.0792 • • • • • • • • • • • • • • • •	ns ns ns ns ns ns ns ns ns	ns ns 0.0644 ns ns ns ns ns ns ns ns ns ns ns ns ns	ns ns 0.0734 ns ns 0.0919 ns ns ns ms ns ns ns ns ns ns ns ns
T2.A1 A375M	mock vs mock	T2.A1 PBMC + ZA vs. MACS y/ō + OKT3 (mock vs. mock)   T2.A1 PBMC + OKT3 vs. MACS CD8 + OKT3 (mock vs. mock)   T2.A1 PBMC + OKT3 vs. MACS y/ō + OKT3 (mock vs. mock)   T2.A1 PBMC + ZA vs. PACS y/ō + OKT3 (mock vs. mock)   T2.A1 PBMC + ZA vs. PBMC + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS Q/ō + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS CD8 + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS Q/ō + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS Y/ō + OKT3 (CAR vs. CAR)   T2.A1 PBMC + OKT3 vs. MACS Q/ō + OKT3 (CAR vs. CAR)   T2.A1 PBMC + OKT3 vs. MACS Y/ō + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA (mock vs. CAR)   A375M PBMC+ ZA (mock vs. CAR)   A375M PBMC + ZA (mock vs. CAR)   A375M MACS Q/ō + OKT3 (mock vs. CAR)   A375M PBMC + ZA vs. PBMC + OKT3 (CAR vs. CAR)   A375M PBMC + ZA vs. PBMC + OKT3 (CAR vs. CAR)   A375M PBMC + ZA vs. PBMC + OKT3 (CAR vs. CAR)   A375M PBMC + ZA vs. PBMC + OKT3 (CAR vs. CAR)   A375M PBMC + ZA vs. MACS CD8 + OKT3 (CAR vs. CAR)   A375M PBMC + ZA vs. MACS CD8 + OKT3 (CAR vs. CAR)   A375M PBMC + ZA vs. MACS CD8 + OKT3 (CAR vs. CAR)   A375M PBMC + ZA vs. MACS CD8 + OKT3 (CAR vs. CAR)   A375M PBMC + ZA vs. MACS CD8 + OKT3 (CAR vs. CAR)   A375M PBMC + ZA vs. MACS CD8 + OKT3 (CAR vs. CAR)	ns 0.0792 • • • ns ns ns ns ns ns • • • • • •	ns ns ns ns ns ns ns ns   	ns ns 0.0644 ns ns ns ns ns ns ns ns ns ns ns ns ns	ns ns 0.0734 ns ns ns ns ns ns ns ns ns ns
T2.A1	mock vs mock	T2.A1 PBMC + ZA vs. MACS y/ō + OKT3 (mock vs. mock)   T2.A1 PBMC + OKT3 vs. MACS CD8 + OKT3 (mock vs. mock)   T2.A1 PBMC + OKT3 vs. MACS y/ō + OKT3 (mock vs. mock)   T2.A1 PBMC + ZA vs. PACS y/ō + OKT3 (mock vs. mock)   T2.A1 PBMC + ZA vs. PBMC + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS Q/ō + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS Q/ō + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS Q/ō + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA vs. MACS Q/ō + OKT3 (CAR vs. CAR)   T2.A1 PBMC + CKT3 vs. MACS Q/ō + OKT3 (CAR vs. CAR)   T2.A1 PBMC + OKT3 vs. MACS Q/ō + OKT3 (CAR vs. CAR)   T2.A1 PBMC + ZA (mock vs. CAB)   A375M PBMC+ ZA (mock vs. CAR)   A375M PBMC+ ZA (mock vs. CAR)   A375M PBMC + ZA vs. PBMC + OKT3 (mock vs. CAR)   A375M PBMC + ZA vs. PBMC + OKT3 (CAR vs. CAR)   A375M PBMC + ZA vs. PBMC + OKT3 (CAR vs. CAR)   A375M PBMC + ZA vs. PBMC + OKT3 (CAR vs. CAR)   A375M PBMC + ZA vs. MACS V/ō + OKT3 (CAR vs. CAR)   A375M PBMC + ZA vs. MACS CD8 + OKT3 (CAR vs. CAR)   A375M PBMC + ZA vs. MACS CD8 + OKT3 (CAR vs. CAR)   A375M PBMC + ZA vs. MACS CD8 + OKT3 (CAR vs. CAR)   A375M PBMC + ZA vs. MACS V/ō + OKT3 (CAR vs. CAR)   A375M PBMC + CAT3 vs. MACS V/ō + OKT3 (CAR vs. CAR)   A375M PBMC + CAT3 vs. MACS V/ō + OKT3 (CAR vs. CAR)	ns 0.0792 * ms ns ns ns ns ns ns ns ns ns ns ns ns ns	ns ns ns ns ns ns ns ns   	ns ns 0.0644 ns ns ns ns ns ns ns ns ns ns ns ns ns	ns ns 0.0734 ns ns ns 0.0919 ns ns ns ns ns ns ns ns ns ns ns ns ns

Significance was calculated by unpaired student's t test from 4 to 7 independent experiments, \* p≤0.01, \*\* p≤0.01, \*\* p≤0.01, rs p>0.1, p-values between 0.05 and 0.1 are specified. Conditions: PBMC + ZA = zoledronic-acid expanded PBMC; PBMC + OKT3 = OKT3-expanded PBMC; MACS CD8 + OKT3 = magnetic-activated cell sorting isolated CD8 T cells expanded with OKT3; all conditions were either electroporated with no RNA (mock) or transfected with the gp100 TCR or the MCSP CAR

### TABLE S6: P-values corresponding to figure 5 c and d calculated by unpaired Student's t-test

effector to target ratio

	TARGET		CONDITION	60 : 1	20 : 1	6:1	2:1
C		mock vs TCR	Mel526 PBMC + ZA (mock vs. TCR)	**	ns	ns	ns
	Mal526		Mel526 after depletion (mock vs. TCR)	ns	ns	ns	ns
	Weij20	mock vs mock	Mel526 PBMC + ZA vs. after depletion (mock vs. mock)	ns	ns	ns	ns
		TCR vs TCR	Mel526 PBMC + ZA vs. after depletion (TCR vs. TCR)	ns	ns	ns	ns
		mock vs TCP	A375M PBMC+ ZA (mock vs. TCR)	ns	ns	ns	ns
	A 275M	mock v3 rok	A375M PBMC+ after depletion (mock vs. TCR)	ns	ns	ns	ns
	A375W	mock vs mock	A375M PBMC + ZA vs. after depletion (mock vs. mock)	ns	ns	ns	ns
•		TCR vs TCR	A375M PBMC + ZA vs. after depletion (TCR vs. TCR)	ns	ns	ns	ns
	A375M + gp100	mock vs TCR	A375M+gp100 PBMC+ ZA (mock vs. TCR)	***	***	ns	ns
			A375M+gp100 after depletion (mock vs. TCR)	***	0.0587	ns	ns
		mock vs mock	A375M+gp100 PBMC + ZA vs. after depletion (mock vs. mock)	ns	ns	ns	ns
		TCR vs TCR	A375M+gp100 PBMC + ZA vs. after depletion (TCR vs. TCR)	ns	ns	ns	ns
4	Mel526	mock vs CAR	Mel526 PBMC+ ZA (mock vs. CAR)	***	**	ns	ns
u		Mel526	MOCK VS CAR	Mel526 PBMC+ after depletion (mock vs. CAR)	ns	0.0707	ns
		CAR vs CAR	Mel526 PBMC + ZA vs. after depletion (CAR vs. CAR)	ns	ns	ns	ns
		mock vs CAR	T2.A1 PBMC + ZA (mock vs. CAR)	ns	ns	ns	ns
	T2 A4	TO A4	T2.A1 PBMC + after depletion (mock vs. CAR)	ns	ns	ns	ns
	12.41	mock vs mock	T2.A1 PBMC + ZA vs. after depletion (mock vs. mock)	ns	ns	ns	ns
		CAR vs CAR	T2.A1 PBMC + ZA vs. after depletion (CAR vs. CAR)	ns	ns	ns	ns
		mock vs CAR	A375M PBMC+ ZA (mock vs. CAR)	***	***	ns	ns
	A375M	moor vs oan	A375M PBMC+ after depletion (mock vs. CAR)	ns	ns	ns	ns
		CAR vs CAR	A375M PBMC + ZA vs. after depletion (CAR vs. CAR)	*	ns	ns	ns

Significance was calculated by unpaired student's t test from 3 independent experiments, \*  $p \le 0.05$ , \*\*  $p \le 0.01$ , \*\*\*  $p \le 0.01$ , ns p > 0.1, p - values between 0.05 and 0.1 are specified. Conditions: PBMC + ZA = zoledronic-acid expanded PBMC; after depletion = negatively selected  $\sqrt{5}$  T cells from ZA-expanded PBMC; all conditions were either electroporated with no RNA (mock) or transfected with the gp100 TCR or the MCSP CAR

## TABLE S7: P-values corresponding to figure 6 calculated by unpaired Student's t-test

effector to target ratio

TARGET		CONDITION	20 : 1	6 : 1	2 : 1
		Mel526 PBMC + ZA (mock vs. TCR)	ns	ns	ns
	mack ve TCP	Mel526 PBMC + OKT3 (mock vs. TCR)	ns	ns	ns
	HIUCK VS TOR	Mel526 MACS CD8 + OKT3 (mock vs. TCR)	ns	ns	ns
		Mel526 MACS γ/δ + OKT3 (mock vs. TCR)	ns	ns	ns
		Mel526 PBMC + ZA vs. PBMC + OKT3 (mock vs. mock)	*	*	*
		Mel526 PBMC + ZA vs. MACS CD8 + OKT3 (mock vs. mock)	**	**	0.0667
	maak ya maak	Mel526 PBMC + ZA vs. MACS γ/δ + OKT3 (mock vs. mock)	ns	ns	ns
	mock vs mock	Mel526 PBMC + OKT3 vs. MACS CD8 + OKT3 (mock vs. mock)	ns	ns	ns
		Mel526 PBMC + OKT3 vs. MACS γ/δ + OKT3 (mock vs. mock)	ns	ns	ns
		Mel526 MACS CD8 + OKT3 vs. MACS γ/δ + OKT3 (mock vs. mock)	0.0860	0.0778	ns
		Mel526 PBMC + ZA vs. PBMC + OKT3 (TCR vs. TCR)	0.0602	0.0857	ns
		Mel526 PBMC + ZA vs. MACS CD8 + OKT3 (TCR vs. TCR)	**	*	0.0697
<b>_</b>		Mel526 PBMC + ZA vs. MACS γ/δ + OKT3 (TCR vs. TCR)	ns	ns	ns
Daudi	ICRVSICR	Mel526 PBMC + OKT3 vs. MACS CD8 + OKT3 (TCR vs. TCR)	ns	ns	ns
		Mel526 PBMC + OKT3 vs. MACS y/o + OKT3 (TCR vs. TCR)	0.0646	ns	ns
		Mel526 MACS CD8 + OKT3 vs. MACS γ/δ + OKT3 (TCR vs. TCR)	*	ns	ns
	mashur OAD	Mel526 PBMC+ ZA (mock vs. CAR)	ns	ns	ns
		Mel526 PBMC+ OKT3 (mock vs. CAR)	ns	ns	ns
	MOCK VS CAR	Mel526 MACS CD8 + OKT3 (mock vs. CAR)	ns	ns	ns
		Mel526 MACS γ/δ +O KT3 (mock vs. CAR)	ns	ns	ns
		Mel526 PBMC + ZA vs. PBMC + OKT3 (CAR vs. CAR)	ns	ns	ns
		Mel526 PBMC + ZA vs. MACS CD8 + OKT3 (CAR vs. CAR	**	**	ns
		Mel526 PBMC + ZA vs. MACS γ/δ + OKT3 (CAR vs. CAR)	ns	ns	ns
	CAR VS CAR	Mel526 PBMC + OKT3 vs. MACS CD8 + OKT3 (CAR vs. CAR)	0.0659	ns	ns
		Mel526 PBMC + OKT3 vs. MACS γ/δ + OKT3 (CAR vs. CAR)	ns	ns	ns
		Mel526 MACS CD8 + OKT3 vs. MACS y/o + OKT3 (CAR vs. CAR)	**	*	0.0670

Significance was calculated by unpaired student's t test from 3 to 5 independent experiments, \*  $\beta$ 0.05, \*\*  $\beta$ 0.01, \*\*\*  $\beta$ 0.001, ns p>0.1, p-values between 0.05 and 0.1 are specified. Conditions: PBMC + ZA = zoledronic-acid expanded PBMC; PBMC + OKT3 = OKT3-expanded PBMC; MACS CD8 + OKT3 = magnetic-activated cell sorting isolated CD8 T cells expanded with OKT3;  $\gamma \delta$  + OKT3 = magnetic-activated cell sorting isolated  $\gamma \delta$  T cells expanded with OKT3; all conditions were either electroporated with no RNA (mock) or transfected with the gp10 TCR or the MCSP CAR