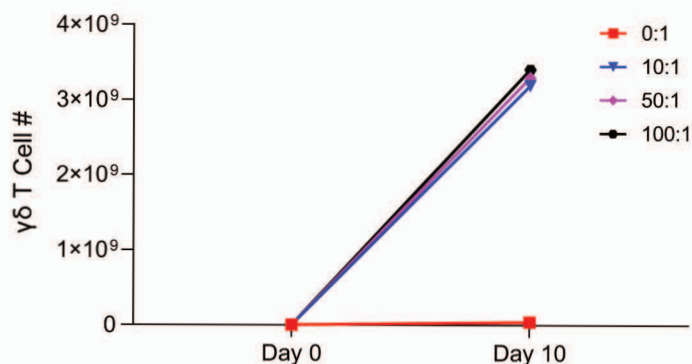
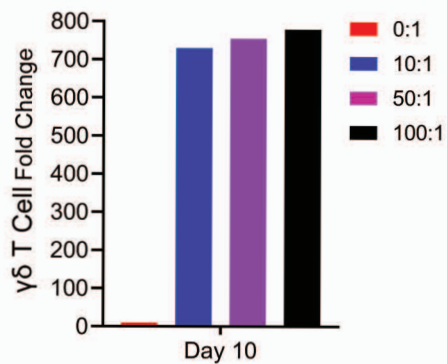
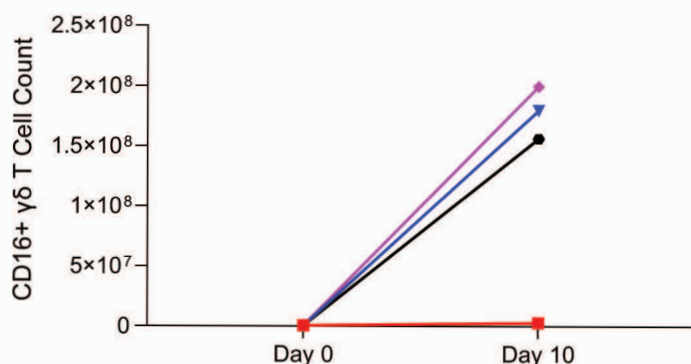
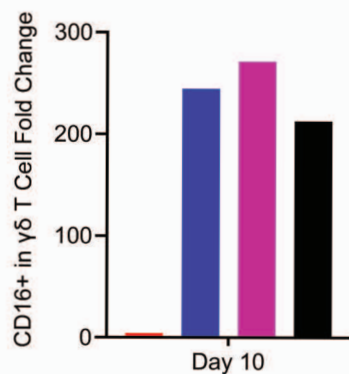


Figure S1

A



B



C

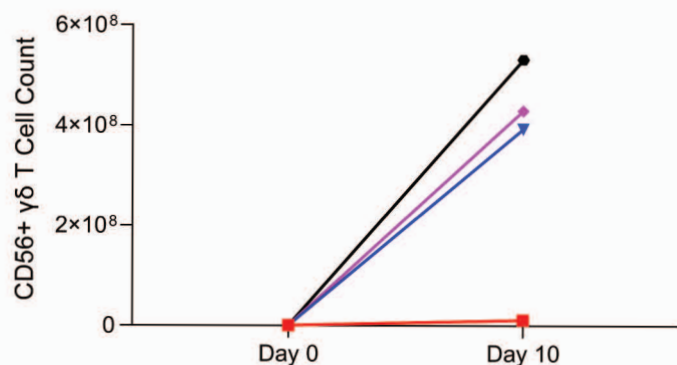
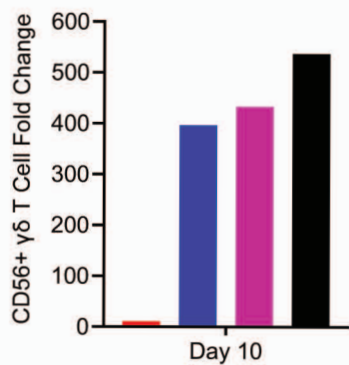


Table S1

humanCD3 scFv-P2A- CD137L	GCGGCCGCCACCACAACACCCGCTCCAGACCTCCACACCCGCTCCTACCATCGCTAGCCAGCCTCT CTCTTTAAGACCCGAGGCTTG TAGACCCGCTGCCGAGGAGCCGTGCACACCAGAGGTTTAGACTTCCG CTTGCGACATCTATATCTGGGCTCCTCTCGCCGAACTTG TGGAGTGCTGCTGCTCTTTAGTGATTA CTTTATACTGCAACCATCGTAATCGTAGGAGGGTGTGCAAATGCCCCAGACCCGTTGTCAAGAGCGGC GACAAGCCCTCTTTATCCGCTAGATACGTGGGAAGCGGAGCCACCAATTTCTTTACTGAAGCAAGCT GGCGACGTGGAGGAGAATCCCGGCCCATGGAGTACGCCAGCGATGCCTCTTTAGACCCCCGAAGCTC CTTGGCCTCCCGCTCCCAGAGCTAGGGCTTG TAGGGTGTGCCTTGGGCTTGTAGTGGCTGGATTACTG CTGCTGTTACTGCTGGCCCGCCTTG TGCCGTGTTTCTGGCTTGTCTTGGGCTGTCAAGCGGAGCTCG TGCTAGCCCCGTTAGCGCTGCCTCCCCTAGACTGAGAGAGGGACCCGAACTGAGCCCCGATGATCCC GCTGGTTTACTGGATTAAGGCAAGGTATGTT CGCCCAGCTGGTGGCCAGAACGTTTACTGATTGAT GGCCCTTTATCTTGGTACAGCGATCCC GGACTGGCCGGAGTGAGCCTCACCGGCCGCTCAGCTACAA GGAGGATACCAAGGAGCTGGTGGTGGCTAAGGCCGGCGTCTACTACGTCTTCTTTAGCTGGAGCTGA GGAGGGTGGTGGCCGAGAGGGATCCGGAAGCTGAGCCTCGCTTACATCGCAACCTTAAAGATTCC GCTGCTGGCGCTGCTGCTCTGGCTCTGACCGTGATCTGCCTCCCGCTAGCAGCGAGGCTCGTAACTC CGCCTTCGGATTCCAAGGTAGACTGCTGCATTTAAGCGCTGGCCAGAGACTGGGCCTGCATTTACACA CAGAGGCTCGTGCTAGGCACGCTTGGCACTGACCCAAGGTGCCACCGTGTGGGTTTATTTCGTGTC ACCCCGAAATCCCGCCGCTCCCAGCCTCCCGAGGAGTGACAGCGAGTGACAGCCACTCGAGATCACTT GTCCAATTTGTTAAAGACAGGATATCAGTGGTCCAGGCTCTAGTTTTGACTCAACAATATCACCAGCTGA AGCCTATAGAGTACGAGCCATAGATAAAATAAAAGATTTTATTTAGTCTCCAGAAAAAGGGGGGAAATGAA AGACCCCACCTGTAGGTTTGGCAAGCTAGCTTAAGTAAACGCCATTTTGAAGGCATGGAAAAATACATA ACTGAGAAATAGAGAAGTTCAGATCAAGGTCAGGAACAGATGGAACAGCTGAATATGGCCAAACAGGA TATCTGTGGTAAGCAGTTCTGCCCGGCTCAGGGCCAAGAACAGATGGAACAGCTGAATATGGGCCA AACAGGATATCTGTGGTAAGCAGTTCCTGCCCGGCTCAGGGCCAAGAACAGATGGTCCCAGATGCG GTCCAGCCCTCAGCAGTTTCTAGAGAACCATCAGATGTTTCCAGGGTGCACCAAGGACCTGAAATGAC CTGTCGCTTATTTGAACTAACCAATCAGTTCTGCTTCTCGCTTGTTCGCGCGCTTCTGCTCCCGAG CTCAATAAAAGAGCCCAACACCCCTCACTCGGGCGCCAGTCTCCGATTGACTGAGTCCGCCGGGTA CCCGTGTATCCAATAAACCCCTCTTG CAGTTGCATCCGACTTGTGGTCTCGCTGTTCCTGGGAGGGTCT CCTCTGAGTGATTGACTACCCGTCAGCGGGGGCTTTTCACACATGCAGCATGTATCAAAATTAATTTGG TTTTTTTTCTTAAGTATTTACATTAATGGCCATAGTACTTAAAGTTACATTTGGCTTCCTTGAATAAACAT GGAGTATTCAGAATGTGCATAAAATATTTCTAATTTTAAAGATAGTATCTCCATTGGCTTCTACTCTTTCTT TTATTTTTTTTTGTCCTCTGTCTTCCATTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGGTGGTGGT TAATTTTTTTTTAAAGATCCTACACTATAGTTC AAGCTAGACTATTAGCTACTCTGTAAACCCAGGGTGACC TTGAAGTCATGGGTAGCCTGCTGTTTTAGCCTTCCCACATCTAAGATTACAGGTATGAGCTATCATTTTT GGTATATTGATTGATTGATTGATTGATGTGTGTGTGTGTGATTGTGTTGTGTGTGTGAAAATG TGTGTATGGGTGTGTGTGAATGTGTGTATGTATGTGTGTGTGTGAGTGTGTGTGTGTGTGTGATGT GTGTGTGTGTGACTGTGTCTATGTGTATGACTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG TGTGTGTTGTGAAAAAATTTCTATGGTAGTGAGAGCCAACGCTCCGGCTCAGGTGTCAGGTGGT TTTGAGACAGAGTCTTTCACTTAGCTTGGAACTCACTGGCCGTGTTTTTACAACTCGTGAAGCAGTGG AAACCCCTGGCGTTACCCAACTAATCGCCTTGCAGCACATCCCCCTTTCGCCAGCTGGCGTAAATGGCA AGGAAGGAGGCGACCGATCGCCCTCCCAACAGTTGCGCAGCCTGAATGGCGAATGGCGCCTGATGCG GATTTCTCCTTACGCATCTGTGCGGTATTTACACCCGATATGGTGCATCTCAGTACAATCTGCTCTGATGC CGCATAGTTAAGCCAGCCCCGACACCCGCAACCCGCTGACGCGCCCTGACGGGCTTGTCTGCTC CCGGCATCCGCTTACAGACAAGCTGTGACCGTCTCCGGGAGCTGCATGTGTGACAGGTTTTTCCGCTC ATCACCGAAACGCGCGATGACGAAAGGCCCTCGTGATACGCCTATTTTTATAGGTTAATGTGATGATA TAATGGTTTTCTAGACGTGAGGTGGCATTTCGCGGAAATGTGCGCGGAACCCCTAACTACTCTAGC TTCCCAGCAACAATTAAGACTGGATGGAGGCGGATAAAGTTCAGGACCCTCTGCGCTCGGCC TTCCGGCTGGCTGGTTTTATTGCTGATAAATCTGGAGCCGCTGAGCGTGGGCTCGCAGTATCATTGCA GCACTGGGGCCAGATGGTAAGCCCTCCCGTATCGTAGTTATCTACACGACGGGGAGTCAGGCAACTAT GGATGAAACGAAATAGACAGATCGCTGAGATAGGTGCCTCACTGATTAAGCATTGGTAACTGTCAAGCCA AGTTACTCATATATACTTTAGATTGATTTAAACTTCATTTTTAATTTAAAGGATCTAGGTGAAGATCCT TTTTGATAATCTCATGACCAAAATCCCTAACGTGAGTTTTCGTTCCACTGAGCGTCAAGCCCGTAGAA AAGATCAAAGGATCTTCTTGAGATCCTTTTTTTCTGCGCGTAATCTGCTGCTTGCAAACAAAAAACCA CGCTACCAGCGGTGGTTTTGTTGCCGGATCAAGAGCTACCAACTCTTTTTCCGAAGGTAAGTGGCTTCA GCAGAGCGCAGATACCAAACTGTCCTTCTAGTGATGCCGTAGTTAGGCCACCACCTCAAGAACTCTG TAGACCGCCTACATACCTCGCTCTGCTAATCCTGTACTTACAGTGGCTGCTGCCAGTGGCGATAAGTCT GTCCTTACCGGTTGGACTCAAGACGATAGTTACGGATAAAGGCAGCAGCGGCTGGGCTGAAACGGGGG TTGCTGCACACAGCCCAGCTTGGAGCGAACGACCTACCCGAACTGAGATACCTACAGCGTGAGCATT GAGAAAGCGCCACGCTTCCCGAAGGGAGAAAGCGCGACAGGTATCCGGTAAAGCGGCAAGGTGCGAAC AGGAGAGCGCACGAGGGAGCTTCCAGGGGGAAACGCCTGGTATCTTTATAGTCTGTCCGGTTTCGCG ACCTTACTGACTTGGCGTTCGATTTTTGCTGATCCTGCTGACGGGGGGCGGAGCCTTTCGAAACCGCAGC AACCGCCCTTTTTACGGTTCCTGGCTTTTTGCTGGCTTTTTGCTCACATGTTCTTTCTCGCTTATCCC CTGATTTCTGTGGATAACCGTATTACC GCCTTTGAGTGAGCTGATACCGCTCGCCGAGCCGAACGACC GAGCGCAGCGAGTCACTGAGCGAGGAAGCGGAAGAGCGCCCAATACGCAAACCCGCTTCCCAGCGC GTTGGCCGATTCATTAATGCAGCTGGCAGCAGAGTTTCCCAGCTGGAAGCGGCAAGTGGGCGAAGC GCAATTAATGTGAGTTAGCTCACTCATTAGGCACCCAGGCTTTACACTTATGCTTCCGGCTCGTATGT TGTGTGGAATTGTGAGCGGATAACAATTTACACAGGAAACAGCTATGACCATGATTACGCCAAGCTTT
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<p>humanCD2 8scFv- P2A- humanIL15 RA</p>	<p>CCGGTGGTACCTCACCTTACCGAGTCCGCGACACAGTGTGGGTCCGCCGACACCAGACTAAGAACCT AGAACCTCGCTGGAAGGACCTTACACAGTCCGCTGACCACCCCCACCGCCCTCAAAGTAGACGGCA TCGCAGCTTGGATACACGCCGCCACCATGGCTCCCCCTCACCAGGTTCTGAGCCTGAACCTGCT GCTGCTGGGCGAGAGCATCATCTGGGAAGCGGCGAGGCTCAGGTGCAGCTGCAGCAGAGCGGCAC CGAACTGGTGAAGCCTGCCTCCAGCGTGAAGATCAGCTGCAAGGCCAGCGGCTACACCTCCACAGC AACTACATGCACTGGATCAGGCAGCAGCCCGCAATGGCCTGGAGTGGATCGGCAGGATTTACCCCG GCAACGGCAACACCAATACATCAGAAGTTCGATGGCAAGGCCACCCCCACCGCTGACAAGTCTCC TCCACCGCCTACATGCAGCTGAGCAGACTGACCTTCGAGGATAGCGCCGTCTACTTCTGCGCTAGCGC CCCTCTGGACTACGGAGGCCACATCATGGACGCTGGGCCAGGGCACCACTGACATGAGTCTCC GGAGGGCGGGCAGCGGGCGGGCGGCGGAGGCGGCGGAGGCGGCGAGCGATATCCAGCTACCCAGAG CCCTGCCTTTCTGAGCGCCAGCCTGGGCGAGACCGTGAGCATTGAGTGCCTCGGCTCCGAGGACATC TAGGGCTACCTGGCCTGGTATCAGCAGAAGCCCGGCAAGAGCCCCAGCTGCTGATCTACGTGGCCAA CAGGCTGCAAGGATGGCGTGCCTAGCAGATTTAGCGCTGGGCGAGCGGAGCCAGCTGACATGCTCAAG ATCAGCGGATGCAGCCTGAGGACGAGGGCGACTACTACTGCCTCCAGGGCAGCAAGTTTCCCTCAC CTTCGGCAGCGCACCAAGCTGGAGATCAAAGGGCGGCCGCCACAACCACCCCGCTCCAGACCT</p>

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Table S1. Nucleotide sequences of constructs

Table S2

	Day 7: Seeding density of Total number of cells per G-REX100 MCS Flask	Day 7: Number of $\gamma\delta$ T cells per Flask	# of G-REX 100MCS flasks used	Day 17: Total number of $\gamma\delta$ T cells at harvest
Donor 1	5×10^6 cells/flask	4.68×10^6 cells/flask	1	3.3×10^9 cells
Donor 2	5×10^6 cells/flask	2.22×10^6 cells/flask	1	2.65×10^8 cells
Donor 3	5×10^6 cells/flask	4.38×10^6 cells/flask	1	2.58×10^9 cells

Table S2. Total viable counts of $\gamma\delta$ T cells after 10 days expansion in the presence of aAPCs.