

Table S1: HDR DNA template sequence (TCR 6-2), Related to Before you begin Step 1

TRAC LHA	CTGCCTTTACTCTGCCAGAGTTATATTGCTGGGGTTTTGAAGAAGATCCTATTAATAAAAAGAATAAGCA GTATTATTAAGTAGCCCTGCATTTTCAGGTTTCCTTGAGTGGCAGGCCAGGCCTGGCCGTGAACGTTCA CTGAAATCATGGCCTCTTGCCAAAGATTGATAGCTTGTGCCTGTCCCTGAGTCCCAGTCCATCACGAG CAGCTGGTTTCTAAGATGCTATTTCCCGTATAAAGCATGAGACCGTGACTTGCCAGCCCCACAGAGCC CCGCCCTTGTCCATCACTGGCATCTGGACTCCAGCCTGGGTTGGGGCAAAGAGGGAAATGAGATCAT GTCCTAACCCCTGATCCTCTTGTCCACAGATATCCAGAACCCTGACCCTGCCGTG
P2A	GGCAGCGGCGCCACCAACTTCAGCCTGCTGAAGCAGGCCGGCGACGTGGAAGAGAACCCTGGGCC
TCR 6-2 β-chain (VDJβ with mTRBC-Cys)	ATGGGCTCCTGGACCCTCTGCTGTGTGTCCCTTGCATCCTGGTAGCAAAGCACACAGATGCTGGAGT TATCCAGTACCCCCGGCAGGAGGTGACAGAGATGGGACAAGAAGTGAAGTCTGAGATGTAAACCAATTT CAGGACACGACTACCTTTTCTGGTACAGACAGACCATGATGCGGGGACTGGAGTTGCTCATTTACTTT AACAAACAACGTTCCGATAGATGATTCAGGGATGCCCGAGGATCGATTCTCAGCTAAGATGCCTAATGC ATCATTCTCCACTCTGAAGATCCAGCCCTCAGAACCAGGGACTCAGCTGTGTACTTCTGTGCCAGCA GTTCCGCTAACTATGGCTACACCTTCGGTTCTGGGACCAAGTTAACCGTTGTAGAGGATCTGAGAAAT GTGACTCCACCCAAGGTCCTTGTGGTGGCCATCAAAGCAGAGATTGCAAACAAAACAAAGGCTAC CCTCGTGTGCTTGGCCAGGGGCTTCTTCCCTGACCACGTGGAGCTGAGCTGGTGGGTGAATGGCAAG GAGGTCCACAGTGGGGTCTGCACGGACCCTCAGGCCTACAAGGAGAGCAATTATAGCTACTGCCTGA GCAGCCGCTGAGGGTCTCTGCTACCTTCTGGCACAATCCTCGAAACCCTTCCGCTGCCAAAGTGA GTTCCATGGGCTTTCAGAGGAGGACAAGTGGCCAGAGGGCTCACCCAAACCTGTACACAGAACATC AGTGCAGAGGCCTGGGGCCGAGCAGACTGTGGAATCACTTCAGCATCCTATCATCAGGGGGTTCTGT CTGCAACCATCCTCTATGAGATCCTACTGGGGAGGCCACCCTATATGCTGTGCTGGTCAAGTGGCCTG TGCTGATGGCCATGGTCAAGAAAAAATTCC
T2A	GGCAGCGGCGAGGGCAGAGGAAGTCTGCTAACATGCGGTGACGTGAGGAGAATCCTGGACCT
TCR 6-2 α-chain (VJa with mTRAC-Cys)	ATGCTCCTTGAACATTTATTAATAATCTTGTGGATGCAGCTGACATGGGTCAAGTCAACAGTGAAT CAGAGTCCCTCAATCTATGTTTATCCAGGAAGGAGAAGATGCTCCATGAACTGCACTTCTTCAAGCATA TTAACACCTGGCTATGGTACAAGCAGGACCCTGGGGAAGGTCCTGTCCTTTGATAGCCTTATATAA GGCTGGTGAATTGACCTCAAATGGAAGACTGACTGCTCAGTTTGGTATAACCAGAAAAGGACAGCTTCC TGAATATCTCAGCATCCATACCTAGTGTAGGCATCTACTTCTGTGCTGGGCCGATGAAAACCTCCT ACGACAAGGTGATATTTGGGCCAGGGACAAGCTTATCAGTCATTCCAAATATCCAGAACCAGAACCT GCTGTGTACCAGTTAAAAGATCCTCGGTCTCAGGACAGCACCCCTCTGCCTGTTCCACCGACTTTGACTC CCAAATCAATGTGCCGAAAACCATGGAATCTGGAACGTTTCATCACTGACAAATGCGTGTGCTGGACATGA AAGCTATGGATTCCAAGAGCAATGGGGCCATTGCTGGAGCAACCAGACAAGCTTACCTGCCAAGAT ATCTTCAAAGAGACCAACGCCACCTACCCAGTTTCAGACGTTCCCTGTGATGCCACGTTGACTGAGAA AAGCTTTGAAACAGATATGAACCTAACTTTCAAACCTGTCAGTTATGGGACTCCGAATCCTCCTGCT GAAAGTAGCCGGATTTAACCTGCTCATGACGCTGAGGCTGTGGTCCAGT
stop	TGA
Poly A (bGHpA)	CTAGAGCTCGCTGATCAGCCTCGACTGTGCCTTCTAGTTGCCAGCCATCTGTTGTTTGGCCCTCCCC GTGCCCTTCTTGACCCTGGAAGGTGCCACTCCCCTGTCCTTTCCTAATAAAATGAGGAAATTGCATCG CATTGTCTGAGTAGGTGTCAATTCTATTCTGGGGGGTGGGGTGGGGCAGGACAGCAAGGGGGAGGATT GGGAAGAGAATAGCAGGCATGCTGGGGA
TRAC RHA	TACCAGCTGAGAGACTCTAAATCCAGTGACAAGTCTGTCTGCCTATTCACCGATTTTGATTCTCAAACA AATGTGTCAAAAGTAAGGATTTCTGATGTGTATATCACAGACAAAACCTGTGCTAGACATGAGGTCTATG GACTTCAAGAGCAACAGTGTGTGGCCTGGAGCAACAATCTGACTTTGCATGTGCAAACGCCTTCAA CAACAGCATTATTCCAGAAGACACCTTCTTCCCCAGCCCAGGTAAGGGCAGCTTTGGTGCCTTCGAG GCTGTTTCTTGTTCAGGAATGGCCAGGTTCTGCCAGAGCTCTGGTCAATGATG