

## Supplemental Data 5.

### 1) C7 TCR sequence

IMGT analysis:	TRA rearranged sequence	TRB rearranged sequence
V-GENE and allele	Musmus TRAV4D-4*02 (F)	Musmus TRBV4*01 F
D-GENE and allele	N/A	Musmus TRBD2*01 F
J-GENE and allele	Musmus TRAJ34*02 F	Musmus TRBJ2-4*01 F
AA JUNCTION	CAAGNTNKVVF	CASSYWGGGQNTLYF

#### 1a) C7 TCRalpha sequence

ATGCAGAGGAACCTGGGAGCTGTGCTGGGGATTCTGTGGGTGCAGATTTGCTGGGTGAGAGGAGATCAGGTGGA  
GCAGAGTCCTTCAGCCCTGAGCCTCCACGAGGGAAACCGTTCTGCTCTGAGATGCAATTTTACGACCACCATGA  
GGGCTGTGCAGTGGTTCCAACAGAACTCCAGGGGGCAGCCTCATCAATCTGTTCTACTTGGCTTCAGGAACAAAG  
GAGAATGGGAGGTTAAAGTCAACATTCAATTTCTAAGGAGAGCTACAGCACCTGCACATCAGGGATGCCAGCT  
GGAGGACTCAGGCACTTACTTCTGTGCTGCTGGGAATACCAACAAAGTCGTCCTTTGGAACAGGGACCAGATTAC  
AAGTATTACCAAACATCCAGAATCCGGAACCTGCTGTGTACCAGTTAAAAGATCCTCGGTCTCAGGACAGCACC  
CTCTGCCTGTTACCCGACTTTGACTCCCAAATCAATGTGCCGAAAACCATGGAATCTGGAACGTTTCACTACTGA  
CAAACTGTGCTGGACATGAAAAGCTATGGATTCCAAGAGCAATGGGGCCATTGCCTGGAGCAACCAGACAAGCT  
TCACCTGCCAAGATATCTTCAAAGAGACCAACGCCACCTACCCAGTTCAGACGTTCCCTGTGATGCCACGTTG  
ACTGAGAAAAGCTTTGAAACAGATATGAACCTAAACTTTCAAACCTGTCAGTTATGGGACTCCGAATCCTCCT  
GCTGAAAGTAGCCGGATTTAACCTGCTCATGACGCTGAGGCTGTGGTCC

#### 1b) C7 TCRbeta sequence

ATGGGCTGTAGGCTCCTAAGCTGTGTGGCCTTCTGCCTCTTGGGAATAGGCCCTTTGGAGACGGCTGTTTTCCA  
GACTCCAAACTATCATGTACACAGGTGGGAAATGAAGTGTCTTTCAATTGTAAGCAAACCTCTGGGCCACGATA  
CTATGTATTGGTACAAGCAAGACTCTAAGAAATGCTGAAGATTATGTTTAGCTACAATAATAAGCAAACCTCATT  
GTAAACGAAACAGTTCCAAGGCGTTCTCACCTCAGTCTTCAGATAAAGCTCATTTGAATCTTCGAATCAAGTC  
TGTAGAGCCGGAGGACTCTGCTGTGTATCTCTGTGCCAGCAGCTATTGGGGGGGCGGTCAAACACCTTGTACT  
TTGGTGCGGGCACCCGACTATCGGTGCTAGAAGATCTGAGAAATGTGACTCCACCCAAGGTCTCCTTGTGTTGAG  
CCATCAAAGCAGAGATTGCAAACAAACAAAAGGCTACCCTCGTGTGCTTGGCCAGGGGCTTCTTCCCTGACCA  
CGTGGAGCTGAGCTGGTGGGTGAATGGCAAGGAGGTCCACAGTGGGGTCAGCACGGACCCTCAGGCCTACAAGG  
AGAGCAATTATAGCTACTGCCTGAGCAGCCGCTGAGGGTCTCTGCTACCTTCTGGCACAATCCTCGAAACCAC  
TTCCGCTGCCAAGTGCAGTTCCATGGGCTTTCAGAGGAGGACAAGTGGCCAGAGGGCTCACCCAAACCTGTCAC  
ACAGAACATCAGTGCAGAGGCTGGGGCCGAGCAGACTGTGGAATCACTTCAGCATCCTATCATCAGGGGGTTC  
TGTCTGCAACCATCCTCTATGAGATCCTACTGGGGAAGGCCACCCTATATGCTGTGCTGGTCAGTGGCCTGGTG  
CTGATGGCCATGGTCAAGAAAAAAAATTCCTGA

### 2) P25 TCR sequence

IMGT analysis:	TRA rearranged sequence	TRB rearranged sequence
V-GENE and allele	Musmus TRAV3D-3*02 F	Musmus TRBV16*01 F
D-GENE and allele	N/A	Musmus TRBD1*01 F
J-GENE and allele	Musmus TRAJ18*01 F	Musmus TRBJ2-3*01 F
AA JUNCTION	CAVSGGSALGRLHF	CASSFESSAETLYF

#### 2a) P25 TCRalpha sequence

ATGAAGACAGTGACTGGACCTTTGTTCCCTGTGCTTCTGGCTGCAGCTGAACTGTGTGAGCAGAGGCGAGCAGGT  
GGAGCAGCGCCCTCCTCACCTGAGTGTCCGGGAGGGAGACAGTGCCGTTATCATCTGCACCTACACAGACCCTA  
ACAGTTATTACTTCTTCTGGTACAAGCAAGAGCCGGGGGAGGTTCTCAGTTGCTTATGAAGGTTTTCTCAAGT  
ACGGAAATAAACGAAGGACAAGGATTCAGTGTCTACTGAACAAGAAAGACAAACAACTCTCTCTGAACCTCAC  
AGCTGCCATCCTGGGGACTCAGCCGTGTAATCTGCGCAGTCAGTGGAGGTTTACGCTTAGGGAGGCTGCATT  
TTGGAGCTGGGACTCAGCTGATTGTCATACCTGACATCCAGAACCCAGAACCTGCTGTGTACCAGTTAAAAGAT

CCTCGGTCTCAGGACAGCACCCCTCTGCCTGTTACCGACTTTGACTCCCAAATCAATGTGCCGAAAACCATGGA  
ATCTGGAACGTTCACTACTGACAAAAGCTGTGCTGGACATGAAAGCTATGGATTCCAAGAGCAATGGGGCCATTG  
CCTGGAGCAACCAGACAAGCTTCACCTGCCAAGATATCTTCAAAGAGACCAACGCCACCTACCCCAGTTCAGAC  
GTTCCCTGTGATGCCACGTTGACTGAGAAAAGCTTTGAAACAGATATGAACCTAAACTTTCAAACCTGTCAGT  
TATGGGACTCCGAATCCTCCTGCTGAAAGTAGCCGGATTTAACCTGCTCATGACGCTGAGGCTGTGGTCCAGTT  
GAGGTCTGCAAGGATCC

2b) P25 TCRbeta sequence

ATGGCCCCCAGGCTCCTTTTCTGTCTGGTTCTTTGCTTCTTGAGAGCAGAACCAACAAATGCTGGTGTCATCCA  
AACACCTAGGCACAAGGTGACAGGGAAGGGACAAGAAGCAACTCTGTGGTGTGAGCCAATTTCAGGACATAGTG  
CTGTTTTCTGGTACAGACAGACCATTGTGCAGGGCCTGGAGTTCCTGACTTACTTTCGAAATCAAGTCCTATA  
GATGATTCAGGGATGCCAAGGAACGATTTCTCAGCTCAGATGCCAATCAGTCGCACTCAACTCTGAAGATCCA  
GAGCACGCAACCCAGGACTCAGCGGTGTATCTTTGTGCAAGCAGCTTCGAATCTAGTGCAGAAACGCTGTATT  
TTGGCTCAGGAACCAGACTGACTGTTCTCGAGGATCTGAGAAATGTGACTCCACCCAAGGTCTCCTTGTTTGAG  
CCATCAAAGCAGAGATTGCAAACAAACAAAGGCTACCCTCGTGTGCTTGGCCAGGGGCTTCTTCCCTGACCA  
CGTGGAGCTGAGCTGGTGGGTGAATGGCAAGGAGGTCCACAGTGGGGTCAGCACGGACCCTCAGGCCTACAAGG  
AGAGCAATTATAGCTACTGCCTGAGCAGCCGCCTGAGGGTCTCTGCTACCTTCTGGCACAATCCTCGAAACCAC  
TTCCGCTGCCAAGTGCAGTTCATGGGCTTTCAGAGGAGGACAAGTGGCCAGAGGGCTCACCCAAACCTGTCAC  
ACAGAACATCAGTGCAGAGGCCTGGGGCCGAGCAGACTGTGGAATCACTTCAGCATCCTATCATCAGGGGGTTC  
TGTCTGCAACCATCCTCTATGAGATCCTACTGGGGAAGGCCACCCTATATGCTGTGCTGGTCAGTGGCCTGGTG  
CTGATGGCCATGGTCAAGAAAAAAATTCCTGAGACAAACTTTTATGC

**Code:**

V region (single underline)

J region (double underline)

D region (turquoise highlight)

N or P region (yellow highlight)

**CDR3** (bold)

*C region* (italics)

Green highlight – difference from germline (supposed to be "T")