Supplementary Table V: IGHV genes identified in the F1 mouse genotype that were unable to be haplotyped.

|                | Present in the mouse GRCm39/mm39 genome reference sequence | Present in the BALB_cJ_v1’ sequence of the Mouse Genome Project (MGP) |
|----------------|-------------------------------------------------------------|---------------------------------------------------------------------|
| IGHV1-14*01    | Y                                                           | N                                                                   |
| IGHV1-70*01    | Y                                                           | N                                                                   |
| IGHV1-79*01    | Y                                                           | N                                                                   |
| IGHV2-6-6*01   | N                                                           | Y                                                                   |
| IGHV3-3*02     | N                                                           | Y                                                                   |
| IGHV3-4*02     | N                                                           | Y                                                                   |
| IGHV5-1*02     | N                                                           | Y                                                                   |
| IGHV6-4*01     | Y                                                           | N                                                                   |
| IGHV6-4*02     | N                                                           | N                                                                   |
| IGHV1-34*01    | Y                                                           | N                                                                   |
| IGHV1-37*01    | Y                                                           | N                                                                   |
| IGHV8-4*01     | Y                                                           | N                                                                   |
| IGHV004b*01    | N                                                           | N                                                                   |
| IGHV014b*01    | N                                                           | N                                                                   |
| IGHV017b*01    | N                                                           | Y                                                                   |
| IGHV1S132*01   | N                                                           | Y                                                                   |
| IGHV9S8*01     | N                                                           | N                                                                   |
| balbIGHV039    | N                                                           | N                                                                   |