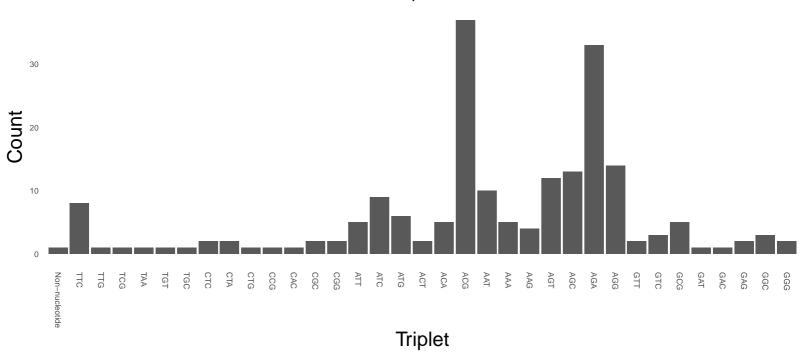
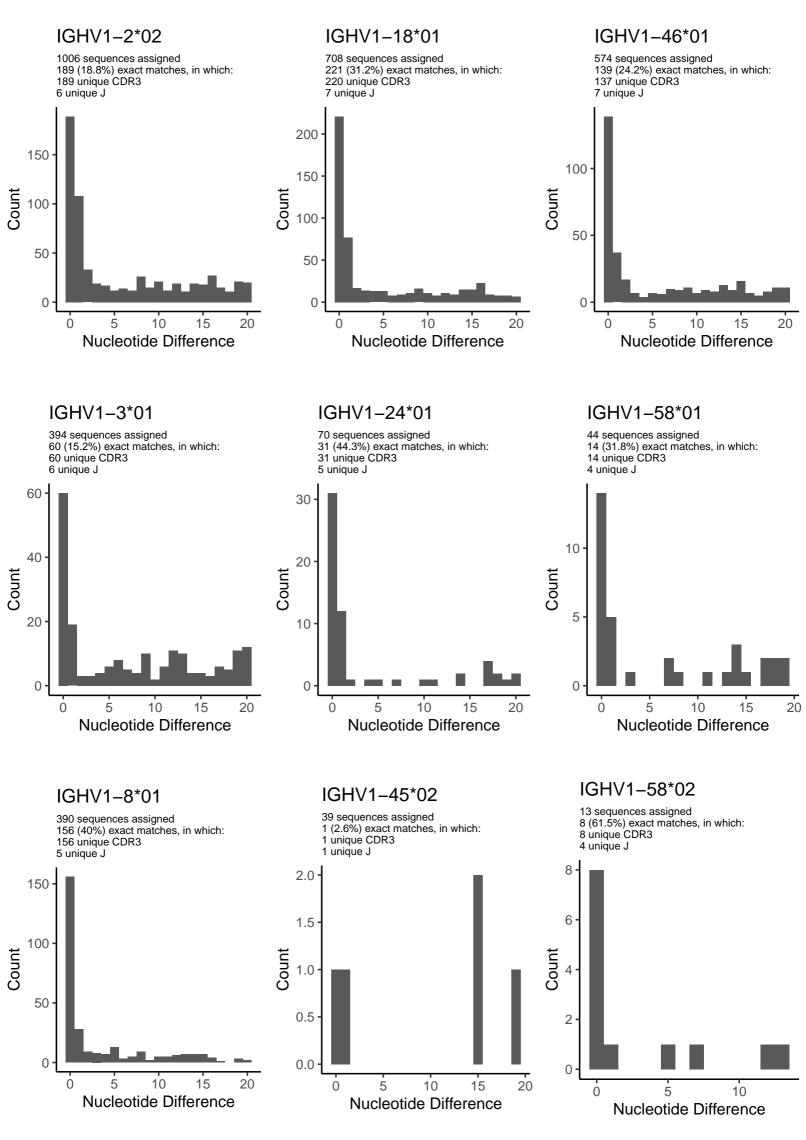
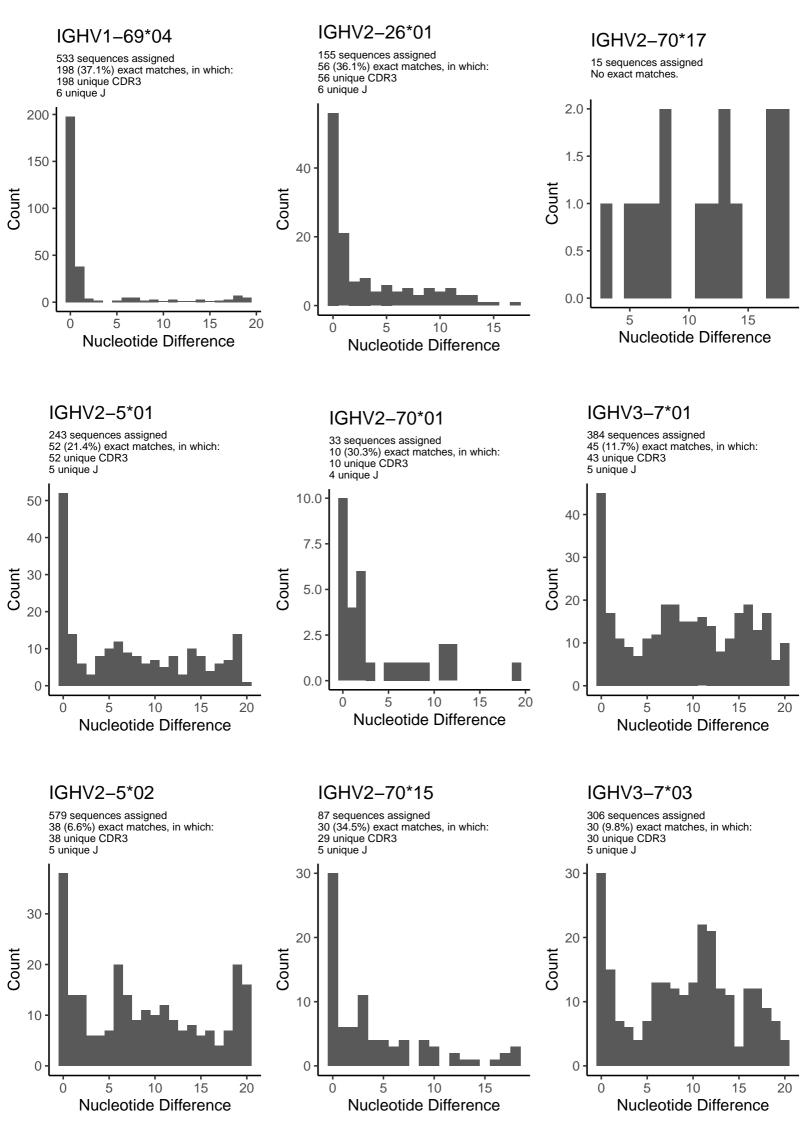
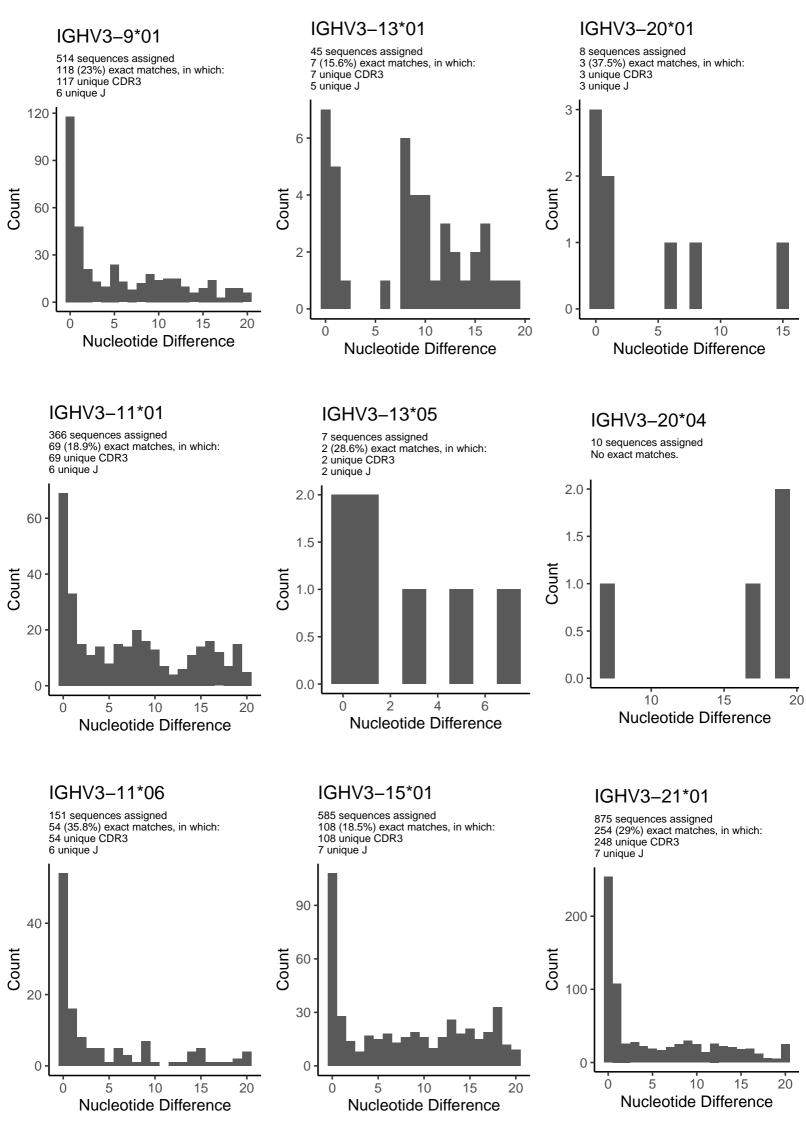


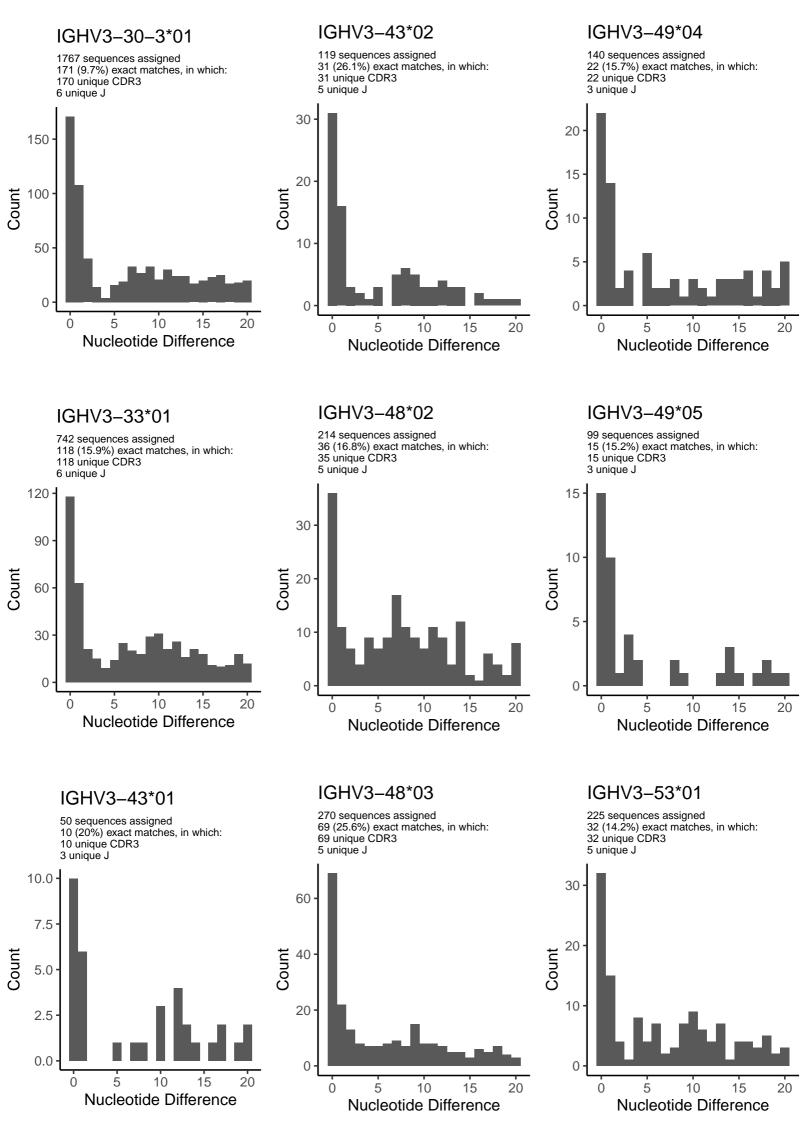
IGHV4-4*02_C20T- Final 3 nucleotides as a triplet

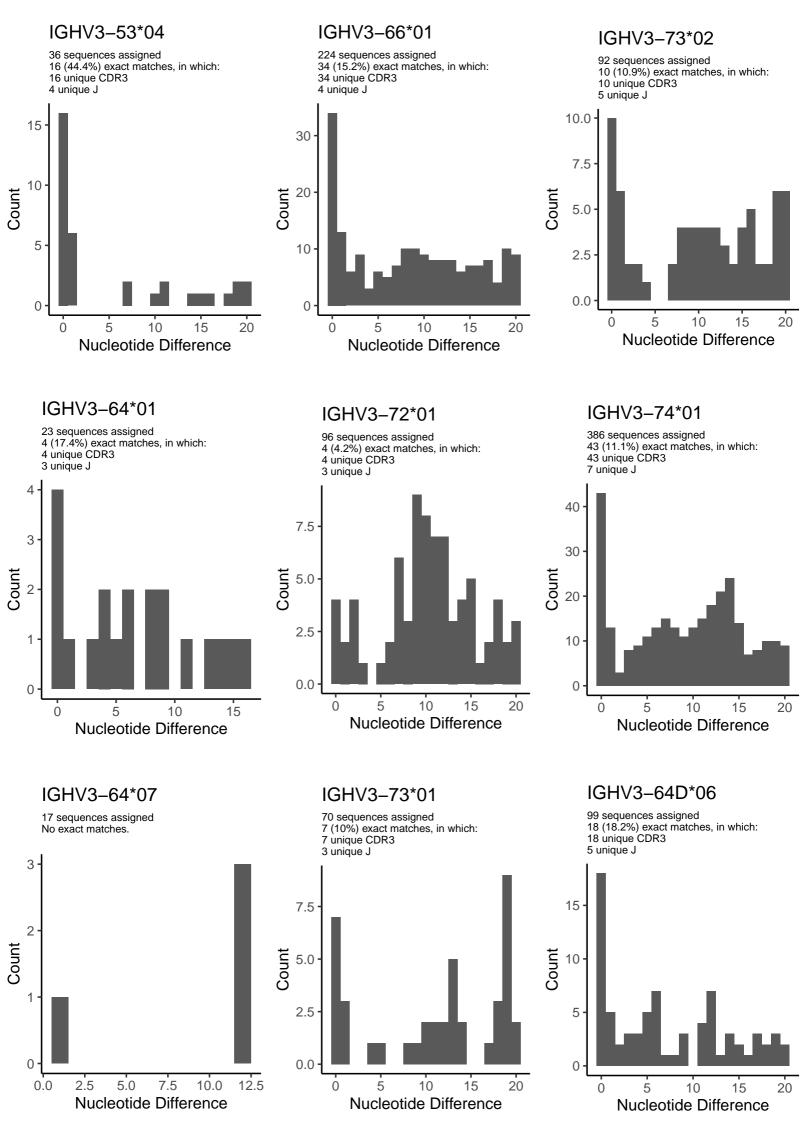


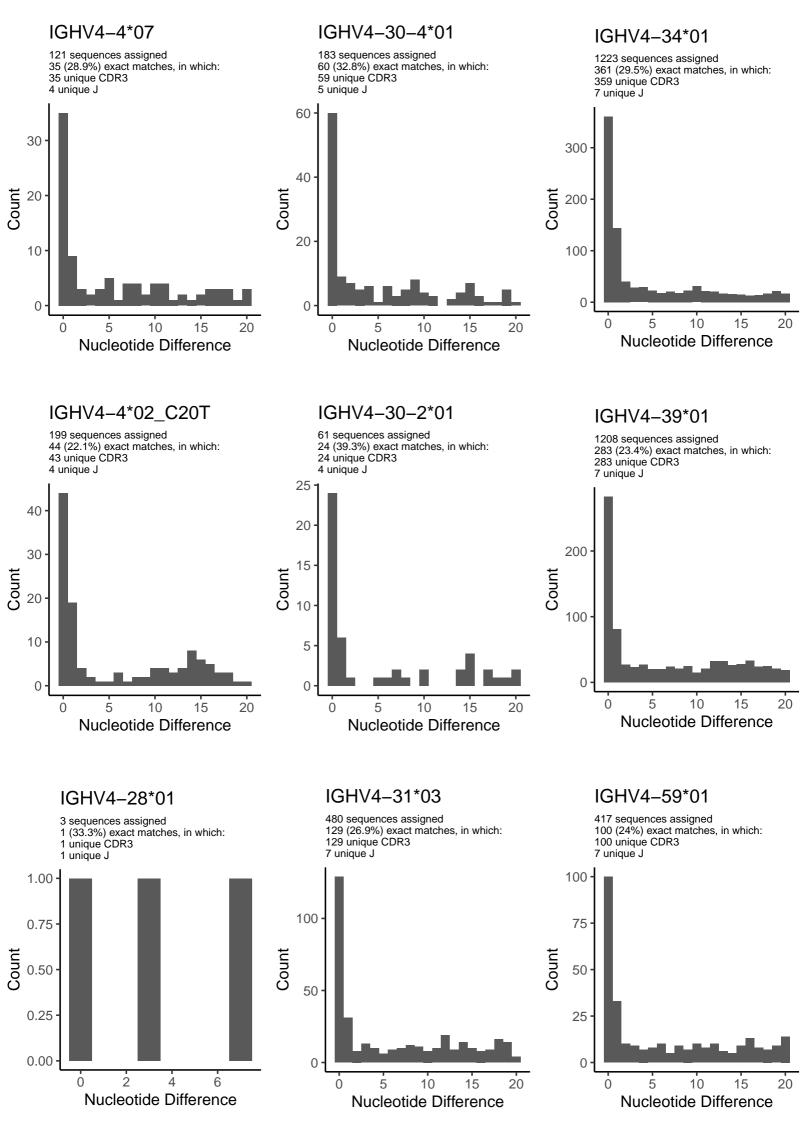










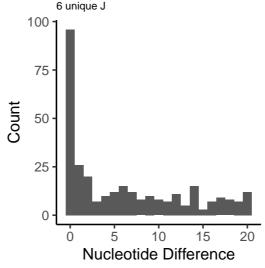


166 sequences assigned 33 (19.9%) exact matches, in which: 32 unique CDR3 5 unique J 30 40 40 40 50 Nucleotide Difference

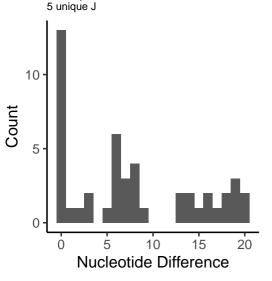
IGHV4-59*08

IGHV5-51*01

454 sequences assigned 96 (21.1%) exact matches, in which: 95 unique CDR3

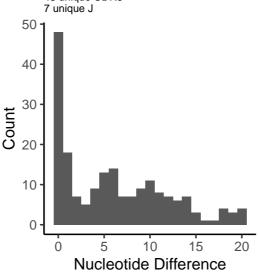


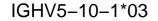
63 sequences assigned 13 (20.6%) exact matches, in which: 13 unique CDR3



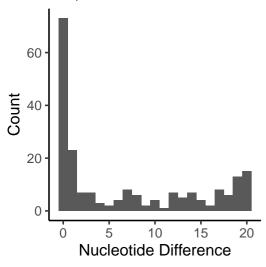
IGHV6-1*01

210 sequences assigned 48 (22.9%) exact matches, in which: 48 unique CDR3



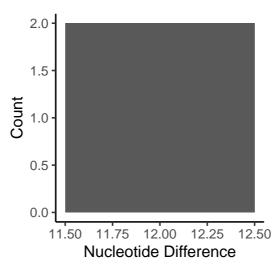


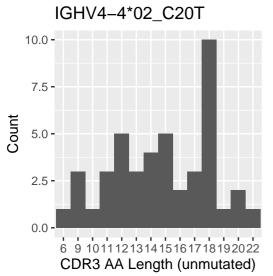
308 sequences assigned 73 (23.7%) exact matches, in which: 73 unique CDR3 5 unique J

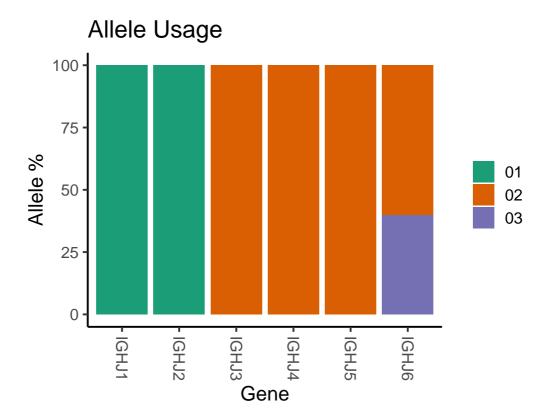


IGHV7-4-1*01

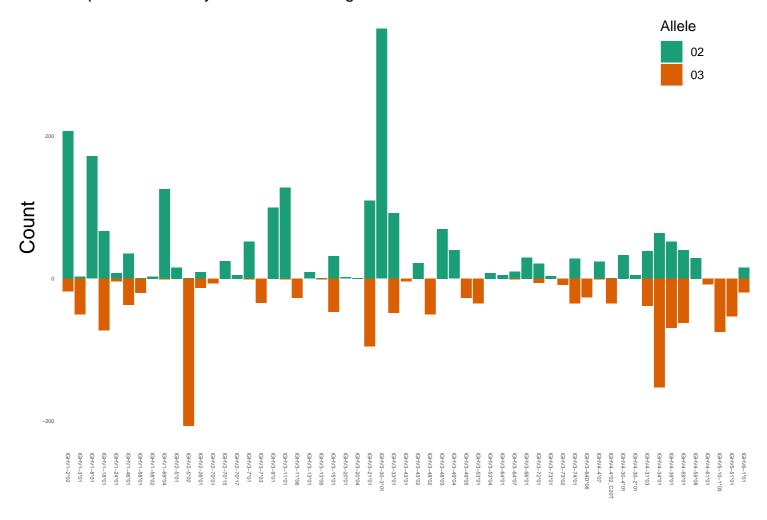
2 sequences assigned No exact matches.







Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found. Warning – no inferred sequences found.	
Warning – no inferred sequences found. Warning – no inferred sequences found. Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found.	
Warning – no inferred sequences found. Warning – no inferred sequences found.	