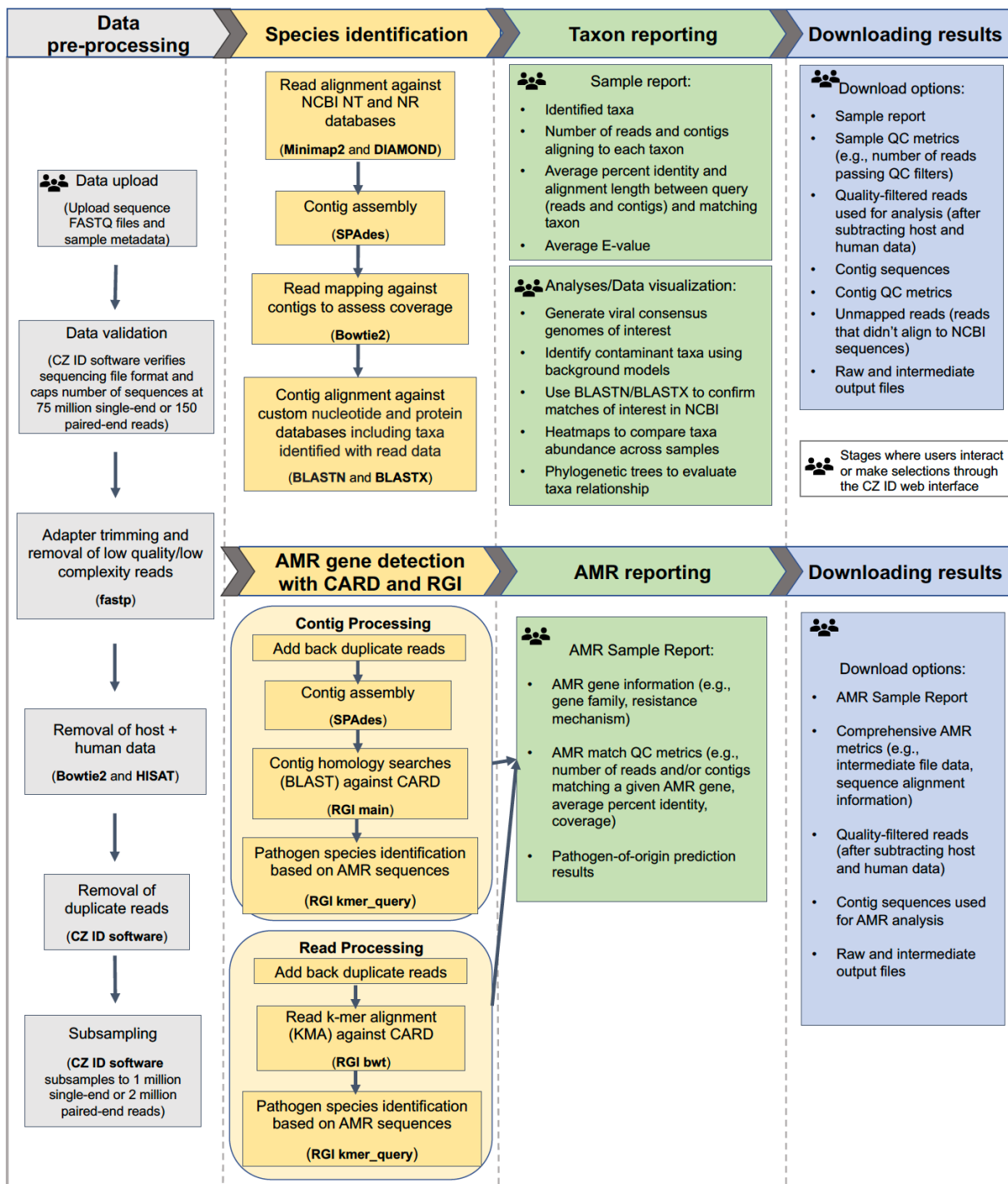


571 **Supplementary Materials**



572

573 **Figure S1. Detailed flow diagram highlighting the integrated AMR and mNGS modules**
 574 **within the CZ ID pipeline.**

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