**Table S2** Performance of DSab-origin and other five commonly used algorithms on S22 Stanford data

|  |  |  |  |
| --- | --- | --- | --- |
|  | IGHV | IGHD | IGHJ |
| DSab-origin | 97.45% | 97.71% | 99.59% |
| Cloanalyst | 94.38% | 97.37% | 99.61% |
| igBLAST | 43.28% | 89.50% | 99.11% |
| VDJ | 67.26% | 97.91% | 100.00% |
| VDJalign | 91.78% | 97.21% | 100.00% |
| IMGT/V-QUEST | 23.07% | 97.17% | 98.73% |