

Appendix B The data of nonlinear alignment by using TopHat-Fusion.

Sample	Ed15	Ed5
Raw reads	120000000 (18G)	120000000 (18G)
Valid reads	96695258 (80.58%)	92722884 (77.29%)
Mapped reads	59939114 (61.99%)	64904183 (70.00%)
Unique Mapped reads	59178778 (61.20%)	63715335 (68.72%)
Multi Mapped reads	760336 (0.79%)	1188848 (1.28%)
PE Mapped reads	25057032 (25.91%)	29135713 (31.42%)
Mapped left reads	32435874 (33.54%)	34014798 (36.68%)
Mapped right reads	27503240 (28.44%)	30889385 (33.31%)
Reads map to sense strand	29598281 (30.61%)	31936173 (34.44%)
Reads map to antisense strand	29580497 (30.59%)	31779162 (34.27%)
Non-splice reads	55882477 (57.79%)	43823042 (47.26%)
Splice reads	3296301 (3.41%)	19892293 (21.45%)
Unmapped reads	36756144 (38.01%)	27818701 (30.00%)
Back-spliced junctions reads	771052 (0.80%)	1814270 (1.96%)