Supplementary Figure 7.FX CapTrap-seq dRNA direct cDNA R₂C₂ SmartSeq2 LRGASP Mix Mix Mix Mix ONT WTC11 WTC11 WTC11 WTC11 F121-9 F121-9 F121-9 F121-9 Mix Mix WTC11 WTC11 **PacBioSII** F121-9 F121-9 B ONT R₂C₂ **PacBioSII** dRNA CapTrap-seq direct cDNA ONT-R2C2 SmartSeq2 CapTrap-seq Median=618 Median=939 Median=636 Median=1,014 Median=2,271 Median=1,318 7,500 Mapped Human Mix 5,000k 2 500k 12,000 Median=575 Median=899 Median=623 Median=1,173 Median=836 Median=2,094 9,000k Human WTC11 6.000 3,0001 01 Median=605 Median=870 Median=532 Median=1,166 Median=884 Median=1,920 10.000 7,500k F121-9 Mouse 5,000k 2,500k 1,000 2,000 3,000 4,000 5,000 0 1,000 2,000 3,000 4,000 5,000 0 1,000 2,000 3,000 4,000 5,000 1,000 2,000 3,000 4,000 5,00 1,000 2,000 3,000 4,000 5,000 0 1,000 2,000 3,000 4,000 5,00 5'+3'- incomplete 3'- complete only 5'- complete only 5'+3' - complete ONT R₂C₂ **PacBioSII** dRNA ONT-R2C2 SmartSeq2 CapTrap-seq direct cDNA 100% 3.9% (125,402) 8.1% (263,353) 100% 100% 100% 100% 100% 90.4% 1% (31.843) 5.4% (174,41) 88.4% 0.7% (36,919 8% (424,731) 88.3% 13.8% (735,452) 14.8% 0.7% (48.7: 9.7% (645.185) 80.9% 31.9% 13,754,102 43.7% 35.8% **75.7**% 75% 71.2% **31.5%** (15,279,568) **20.9%** (8.987.641) 2.1% (80,87 3.4% (131,1 21% (821,591) 21.7% (9,368,604) luman 50% 2.6% (47.6 **75.5%** 21.2% (10,276,093 **75.1%** 18% (7,749,234) **77.8%** 19.1% **17.5%** (8.480.545) 16.4% (7.046.824 11.6% 11.7% 9.6% 58.7% 0.6% (269,694 21.3% 25% 2.5% (168 **30%** (12,913,970 13.9% (6,715,369) 11.2% (5.403.343) 10.1% 0% 100% 100% 100% 100% 100% 100% 87.5% 0.6% (44.685) 10.3% (724.887) 10% 0.5% (32,6 6.3% (388, **16.1%** (1,132,918) 29.5% Percent of Mapped reads **36.3%** (18,127,430 35.4% (1,037,960) 75% 27.4% 13,671,342 **17.4%** (7,516,645) **WTC11** 20.4% 23% (9,926,440 21.3% (10,657,805) **77.4%** 81.4% 50% 74.3% 19% (9,464,289) 18.2% (7,838,509) 12.5% 14.5% 19.2% (8.275.485 11.8% 9.3% **58.8%** (1,725,171) 28.4% 25% 0.4% (221,48 3.1% (102 3.7% (228.4 1.4% (86,27 2.9% (204 28.3% 12,223,816 1.8% (2,087 21.7% 13.5% (6,745,715) 10.7% (5,360,448) 9.2% 0% 100% 8.4% 100% 100% 100% 100% 100% 8.2% (314,079 79.8% 0.8% (31.088 10.4% (509 78.9% 0.8% (67,307 8.4% (677,849 **76.5%** (26,88: **6.4%** (314,19 18.1% (1.456.200) **37.4%** (1.435.109) **42.3%** (21.023.637 48.8% 75% F121-9 2.8% (105, 4.1% (158 19.3% (740.418) 21.3% 10.598.893 69.5% 50% 15.1% **21.1%** 17.5% 16.3% (7,292,654) **68.9%** 66.6% 66% 35.5% 21% 10,424,744) 35.1% **12.4%** (6,176,541 **32.6%** 14,599,625 10.9% (4.894.571 **55.7%** (2,136,423) **21.6**% 2.3% (184 25% 20.2% 5.3% (202,278 3.6% (139,954 24.8% 11.139.220 21% (10,465,48 17.9% 15% (575,524) 13.5% (662,888) 9.9% 0% ΑİI ΑİI ΑİI Spliced Unspliced Spliced Unspliced Spliced Unspliced ΑII Spliced Unspliced Spliced Unspliced Spliced Unspliced