Optimal alignments among distributions (with sliding) 0.6 0.4 0.6 0.4 0.6 0.4 0.6- 0.4- 0.6 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.2 0.2 0.6 0.6 0.6 0.6 0.6 0.6 0.6 GMD=1.310 0.4 0.2 0.4 0.4 0.4 0.4 0.4 Glul 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.6 0.4 GMD=1.128 GMD=0.821 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 Cyp4a14 0.4 0.4 0.4 Gap=(3,0) 0.2 0.2 0.2 0.6 GMD=1.835 GMD=2.833 GMD=2.284 0.4 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.4 0.2 0.4 0.4 0.2 Stxbp4 0.4 0.4 0.4 0.4 0.2 GMD=0.907 GMD=0.562 GMD=0.833 GMD=2.732 D230039L 0.4 0.4 0.4 0.4 0.4 0.4 0.2 0.4 0.4 0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.2 0.2 0.6 0.6 0.6 0.6 0.6 0.6 0.6 GMD=1.251 GMD=0.351 GMD=0.589 GMD=2.551 GMD=0.658 0.4 0.2 0.4 0.2 0.4 0.4 0.2 0.4 Gap=(0,3) Gap=(0,3) 50 200 0.6 0.6 0.6 GMD=3.802 Gap=(90,0) GMD=5.698 Gap=(93,0) GMD=3.769 Gap=(93,0) GMD=4.339 0.4 0.4 0.4 0.4 0.4 0.4 0.4 Tpt1 0.4 Gap=(93,0)Gap=(90,0)0.2 0.2 0.2 0.2 0.2 50 200 0.6 0.6 0.6 0.6 GMD=3.875 Gap=(74,0) GMD=2.948 Gap=(70,0) GMD=2.754 Gap=(71,0) GMD=4.821 Gap=(74,0) GMD=3.354 Gap=(71,0) GMD=2.760 Gap=(74,0) GMD=1.480 Gap=(0,19) 0.4 0.2 Pcna 0.4 0.4 0.2 0.2 Fraction 0.6 0.6 0.6 0.6 0.4 0.6 GMD=5.415 GMD=4.432 GMD=2.325 D0H4S114 Gap=(54,0)Gap=(59,0)Gap=(0,34)0.2 0.2 0.6 0.6 0.6 0.6 0.6 GMD=5.015 GMD=2.277 GMD=2.147 0.4 0.4 0.2 0.4 Gsto1 Gap=(66,0)Gap=(63.0)Gap=(63.0)Gap=(68,0)Gap=(63,0)Gap=(67,0)Gap=(0.25)Gap=(0,6)Gap=(9,0)0.6 0.6 GMD=5.300 GMD=6.336 GMD=5.936 GMD=4.677 GMD=6.155 GMD=8.677 GMD=7.739 GMD=6.507 GMD=8.409 GMD=6.161 Hsd11b1 Gap=(40,0)Gap=(37,0)Gap=(39,0)Gap=(42,0)Gap=(37,0)Gap=(42,0)Gap=(0,51)Gap=(0,32)Gap=(0,17)Gap=(0,26)0.2 0.2 0.2 0.6 GMD=3.674 GMD=4.736 GMD=4.628 GMD=4.532 GMD=4.247 GMD=4.734 GMD=8.173 GMD=8.213 GMD=7.086 GMD=6.236 GMD=2.453 0.4 0.4 0.4 0.4 Csf1 Gap=(0,4)Gap=(0,3)Gap=(0,3)Gap=(0,93)Gap=(0,74)Gap=(0,57)Gap=(0,66)Gap=(0,40)0.6 0.4 0.2 GMD=7.010 GMD=8.086 GMD=7.811 GMD=6.336 GMD=7.863 GMD=8.016 GMD=10.799 GMD=9.839 GMD=8.790 GMD=10.539 GMD=2.682 GMD=3.747 B2m 0.6 Gap=(26,0) Gap=(100,0) Gap=(97,0) Gap=(100,0) Gap=(7,0) Gap=(32,0) Gap=(66,0) 50 200 GMD=17.388 GMD=18.387 GMD=17.706 GMD=15.601 GMD=18.253 GMD=18.130 GMD=18.366 GMD=17.692 GMD=16.389 GMD=16.574 GMD=12.228 GMD=14.311 GMD=11.099 GMD=18.183 Hig1 0.4 Gap=(31,0) Gap=(32,0) Gap=(35,0) Gap=(35,0) Gap=(0,35) Gap=(0,25) Gap=(1,0) Gap=(0,5) GMD=18.386 Gap=(3,0) GMD=17.705 Gap=(4,0) GMD=15.579 Gap=(7,0) GMD=18.252 Gap=(4,0) GMD=18.130 Gap=(7,0) GMD=18.835 Gap=(0,74) GMD=18.126 Gap=(0,58) GMD=17.125 Gap=(0,42) GMD=17.059 Gap=(0,51) GMD=12.993 Gap=(0,33) GMD=15.084 Gap=(5,0) GMD=12.237 Gap=(0,29) GMD=3.992 Gap=(0,24) GMD=17.387 GMD=18.652 Gap=(7,0) Gap=(0,81) GMD=46.521 Gap=(137,0) GMD=49.034 Gap=(137,0) GMD=46.391 Gap=(63,0) GMD=44.467 Gap=(71,0) GMD=44.996 Gap=(137,0) GMD=45.360 Gap=(44,0)

0.4

0.4

0.4

0.4

0.2

0.6

0.6

0.4

0.4

0.6

0.2

0.4

0.4

0.6

0.4

0.4

Cd72

100

100 300

100 300

100 300

Egln1

100 300

Position