

Table S1 *Cis*-antisense pairs classified according to splicing status and relative orientation of participant TUs.

A. Human *cis*-antisense pairs, all

| | Both unspliced | 1 spliced + 1 unspliced | Both spliced | Total |
|--------------|----------------|----------------------------|--------------|------------|
| Convergent | 33 (22%) | 271 (15%) | 1554 (38%) | 1858 (30%) |
| Divergent | 40 (27%) | 364 (19%) | 1287 (31%) | 1691 (28%) |
| Full overlap | 75 (51%) | 1233 (66%) | 1284 (31%) | 2592 (42%) |
| Total | 148 | 1868 | 4125 | 6141 |

B. Mouse *cis*-antisense pairs, all

| | Both unspliced | 1 spliced + 1 unspliced | Both spliced | Total |
|--------------|----------------|----------------------------|--------------|------------|
| Convergent | 22 (18%) | 220 (13%) | 1320 (38%) | 1562 (30%) |
| Divergent | 71 (57%) | 650 (38%) | 1159 (34%) | 1880 (36%) |
| Full overlap | 32 (26%) | 823 (49%) | 951 (28%) | 1806 (34%) |
| Total | 125 | 1693 | 3430 | 5248 |

C. Human *cis*-antisense pairs with exon overlaps supported by cDNA sequences on both strands

| | Both unspliced | 1 spliced + 1 unspliced | Both spliced | Total |
|--------------|----------------|----------------------------|--------------|-----------|
| Convergent | 5 (11%) | 91 (12%) | 753 (49%) | 849 (37%) |
| Divergent | 12 (26%) | 173 (23%) | 389 (25%) | 574 (25%) |
| Full overlap | 30 (64%) | 483 (65%) | 385 (25%) | 898 (39%) |
| Total | 47 | 747 | 1527 | 2321 |

D. Mouse *cis*-antisense pairs with exon overlaps supported by cDNA sequences on both strands

| | Both unspliced | 1 spliced + 1 unspliced | Both spliced | Total |
|--------------|----------------|----------------------------|--------------|------------|
| Convergent | 16 (21%) | 135 (12%) | 913 (47%) | 1064 (34%) |
| Divergent | 47 (61%) | 439 (40%) | 563 (29%) | 1049 (34%) |
| Full overlap | 14 (18%) | 516 (47%) | 483 (25%) | 1013 (32%) |
| Total | 77 | 1090 | 1959 | 3126 |