

**Figure S1** Flowchart describing the procedure used to assign a mapping to a genomic strand. Accuracy rates for orientation of unspliced mappings were estimated as described in Methods. Ninety-five percent confidence intervals, calculated using the binomial distribution, for the estimates were (99.80%, 99.85%) for human cDNA mappings, (99.75%, 99.77%) for human EST mappings, (99.73%, 99.79%) for mouse cDNA mappings and (99.81%, 99.83%) for mouse EST mappings.