

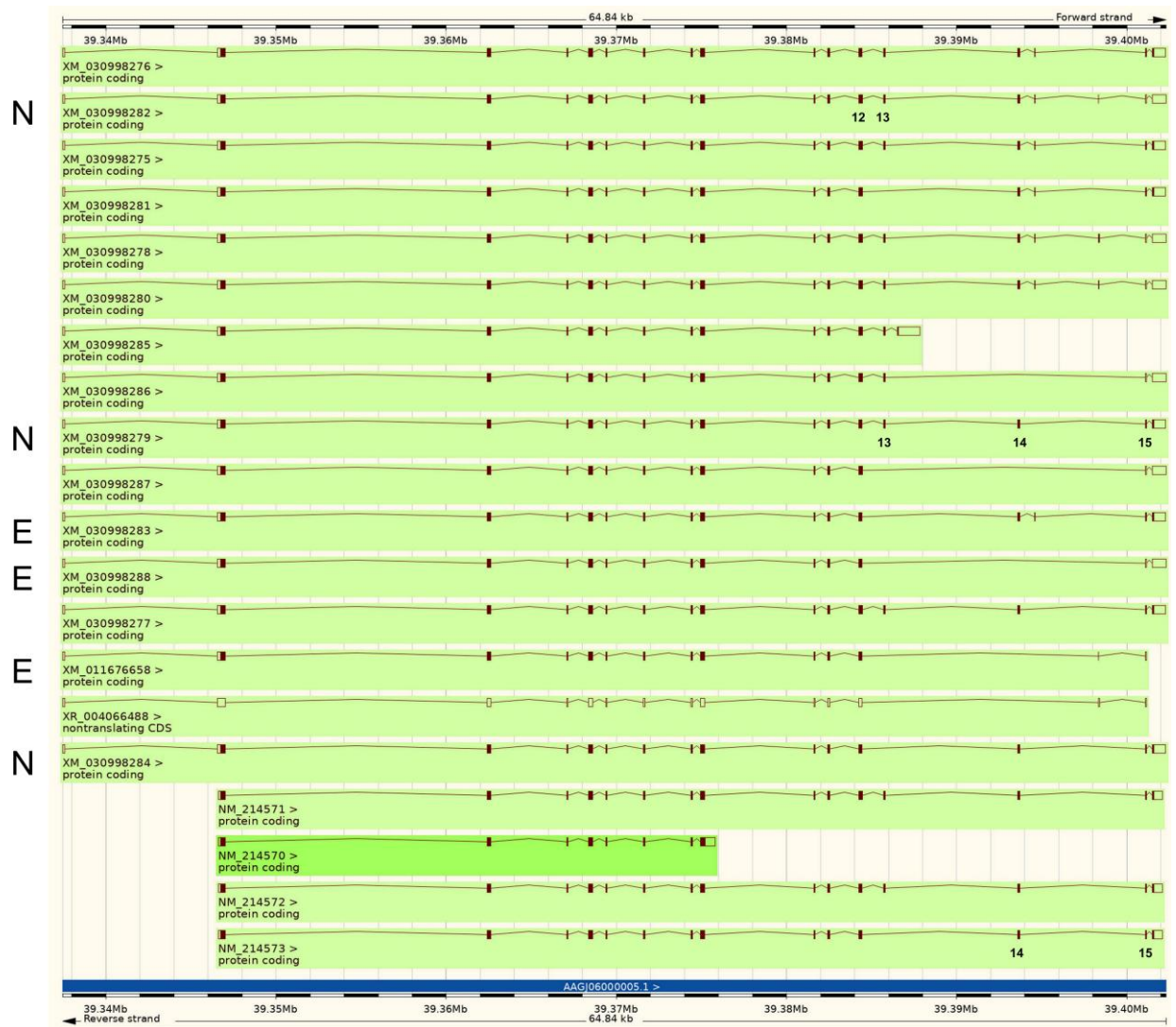


Fig. S1 Structure of kinesin light chain gene (LOC373373). Analyzed six isoforms in radial nerve (SRR532046) are marked by letters. N – non-expressed isoforms, E – expressed isoforms. Variable region is between arrows. Number of exons, which are mentioned in next figures, are listed below for each transcript sequence.

Table S1

Analysis of expression of kinesin light chain protein mRNA isoforms (LOC373373) by single transcript mapping in radial nerve (SRR532046).

Expressed transcripts	Comments
XM_030998283	
XM_030998288	
XM_011676658	Impossible to check the 3'UTR length
Non-expressed transcripts	
XM_030998282	Coverage of the exon 12 3' end is absent, exon 13 is not expressed
XM_030998279	Exon 13 is not expressed, reads almost non overlap exon14-exon15 junctions
XM_030998284	Reads almost non overlap exon14-exon15 junctions

Expression of the six mRNA isoforms was analyzed

Expressed isoforms

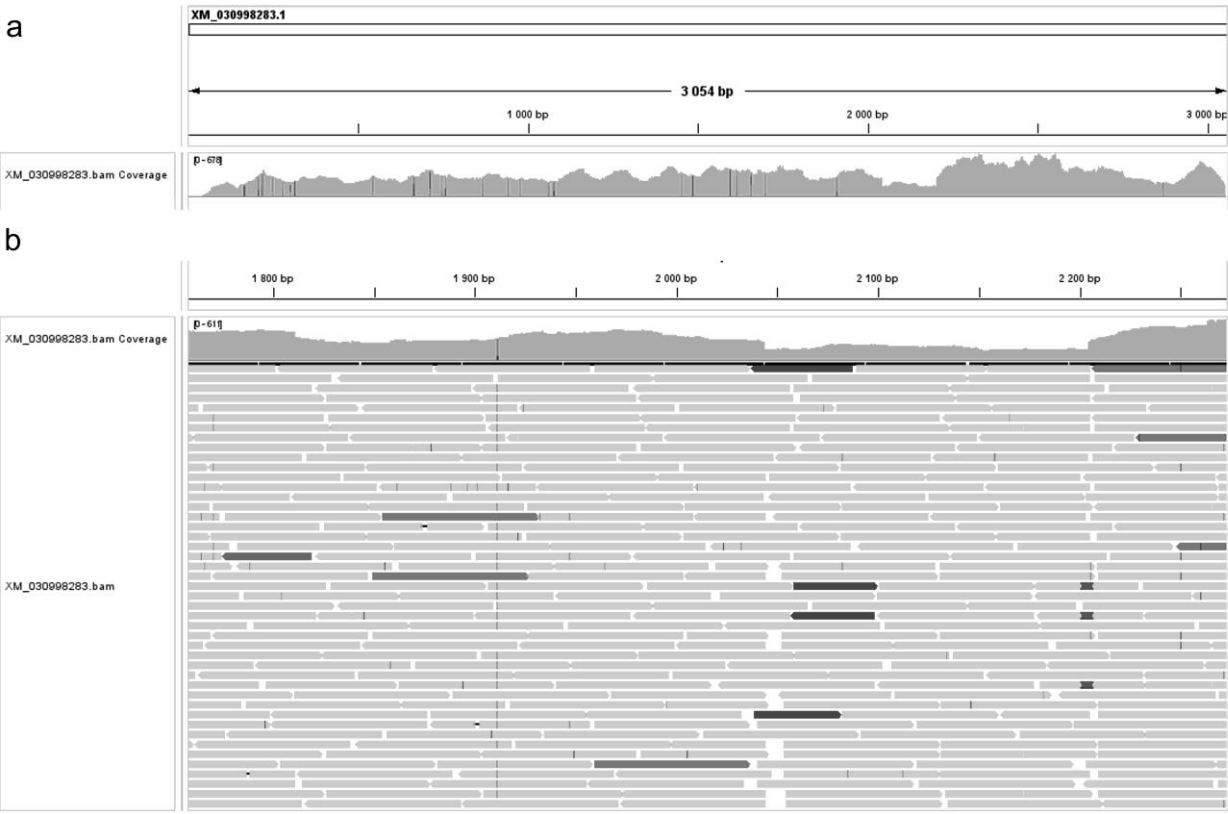


Fig. S2 Mapping to XM_030998283 transcript. **(a)** Coverage profile for entire sequence. **(b)** Variable region.

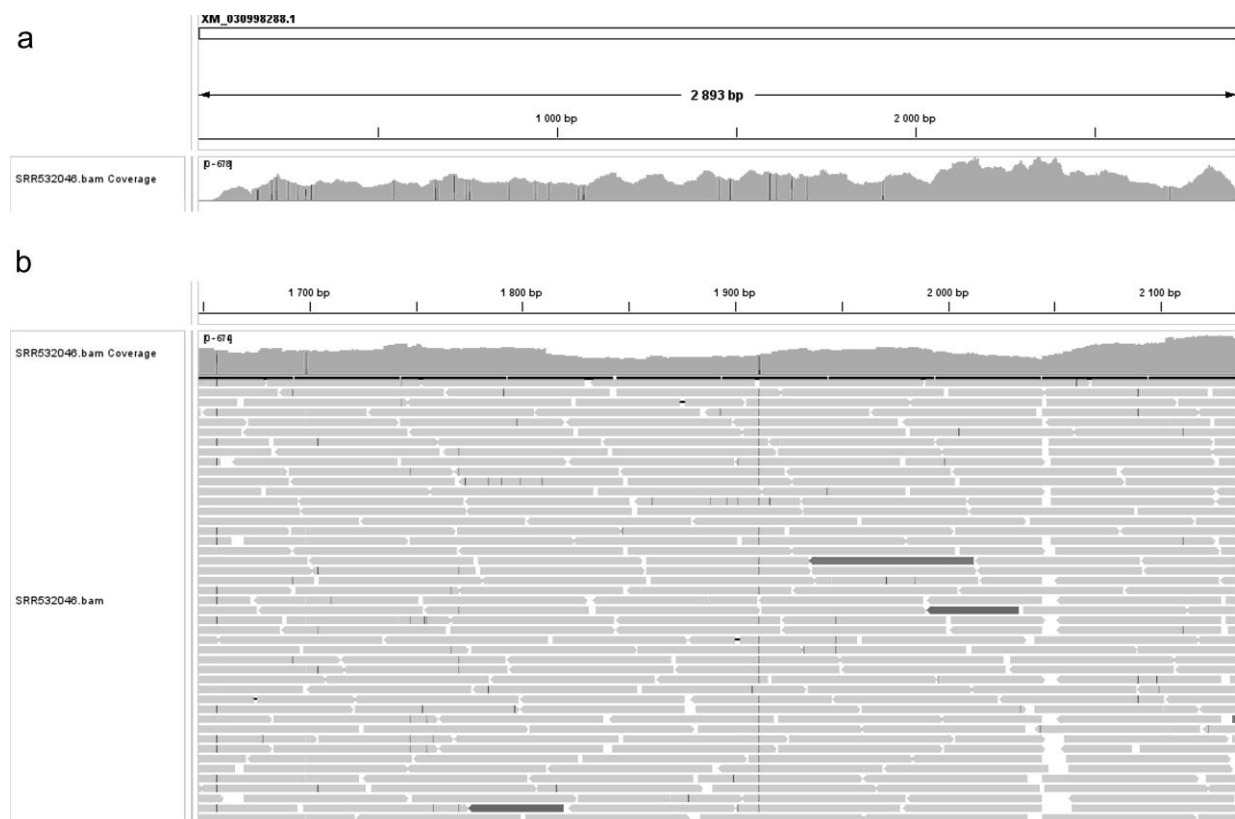


Fig. S3 Mapping to XM_030998288 transcript. **(a)** Coverage profile for entire sequence. **(b)** Variable region.

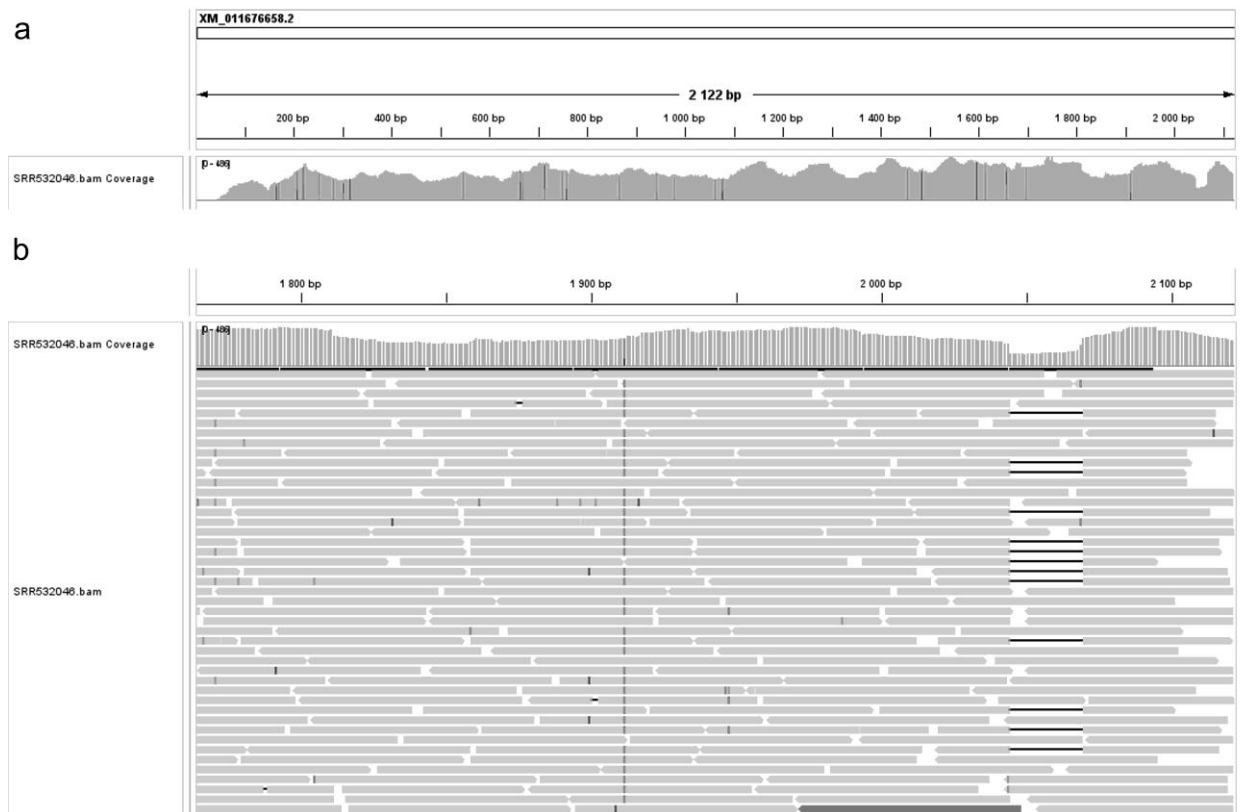


Fig. S4 Mapping to XM_011676658 transcript. **(a)** Coverage profile for entire sequence. This transcript has shorter 3'UTR and coverage profile does not allow to check this sequence by mapping. **(b)** Variable region. Gaps of read mapping (black lines) shows alternative splicing of short exon.

Non-expressed isoforms

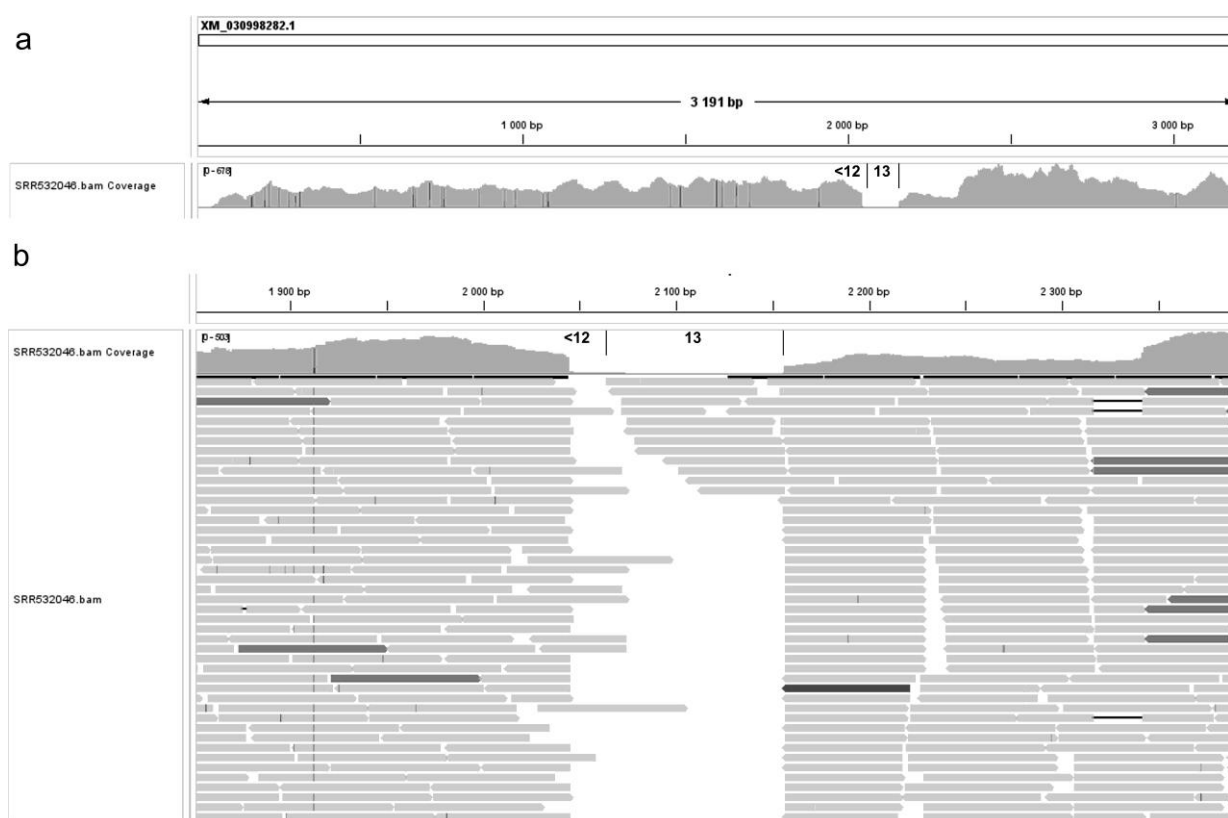


Fig. S5 Mapping to XM_030998282 transcript. **(a)** Coverage profile for entire sequence. **(b)** Variable region. Coverage of the exon 12 3' end is absent, exon 13 is not expressed. End of the exon 12 and exon 13 are marked in both images.

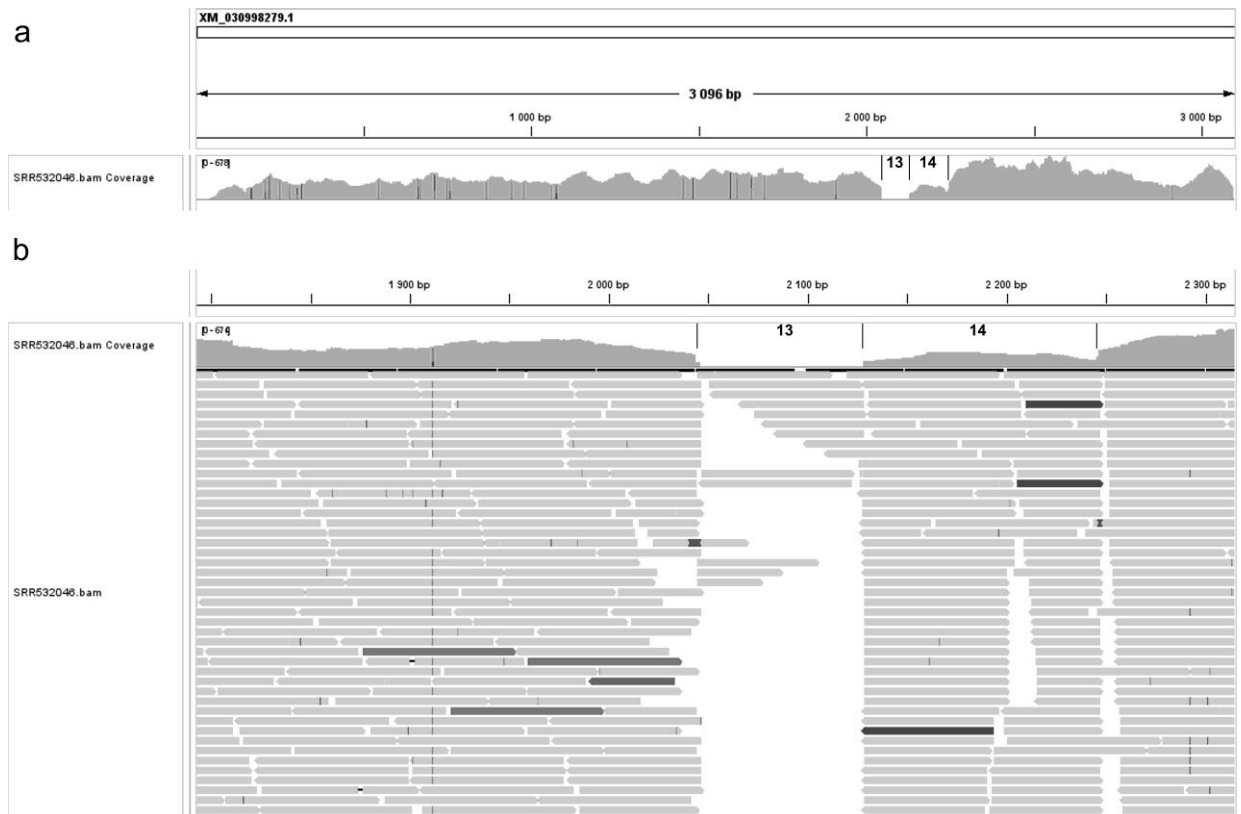


Fig. S6 Mapping to XM_030998279 transcript. **(a)** Coverage profile for entire sequence. **(b)** Variable region. Exon 13 is not expressed, reads almost non overlap exon14-exon15 junctions. Exon 13 and 14 are marked in both images.

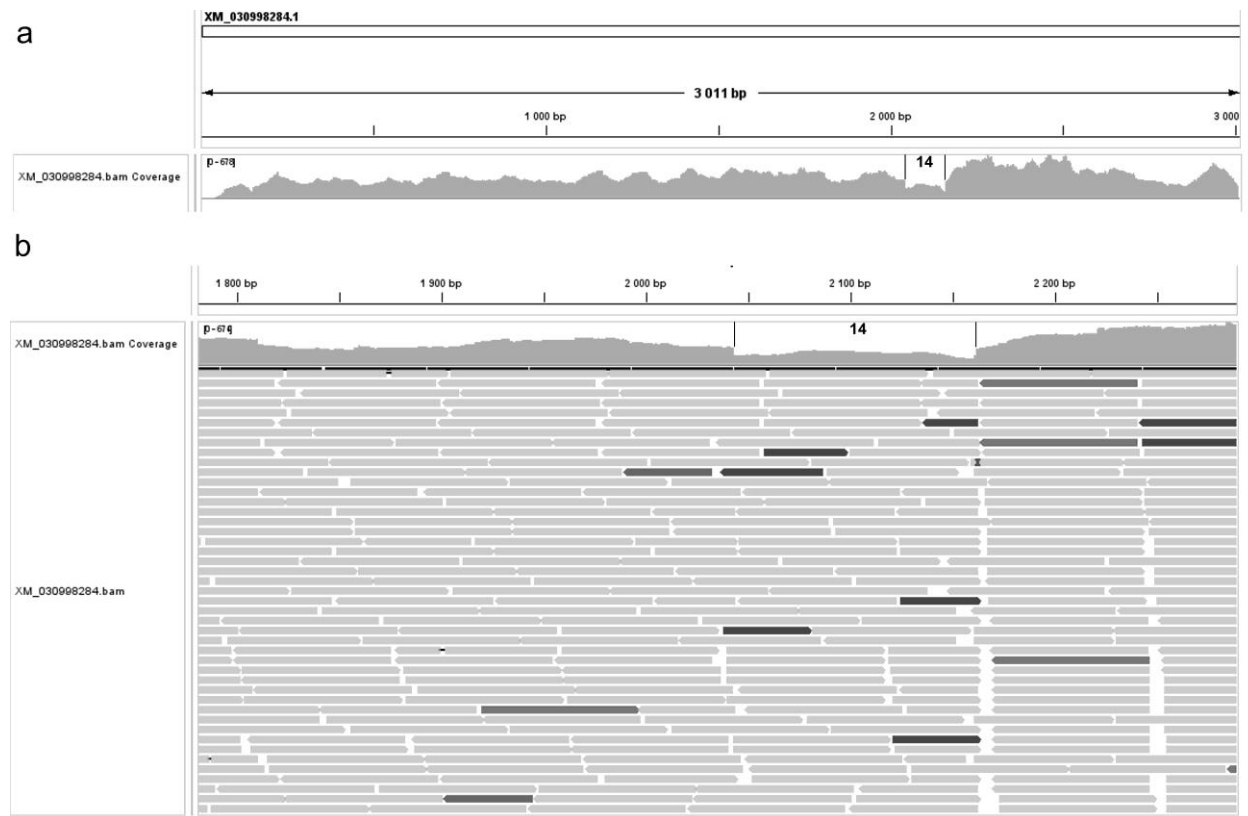


Fig. S7 Mapping to XM_030998284 transcript. **(a)** Coverage profile for entire sequence. **(b)** Variable region. Reads almost non overlap exon14-exon15 junctions. Exon 14 is marked in both images.