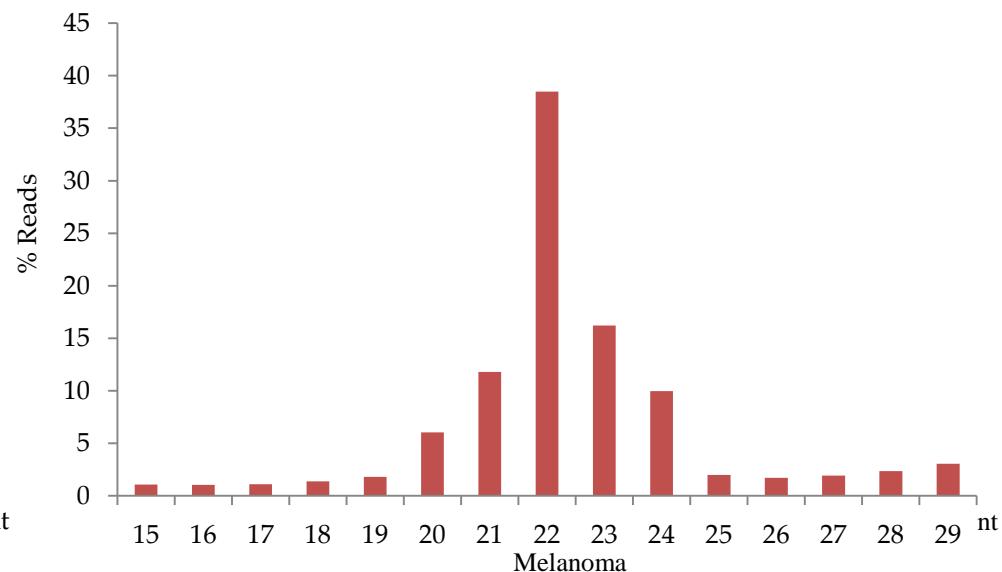
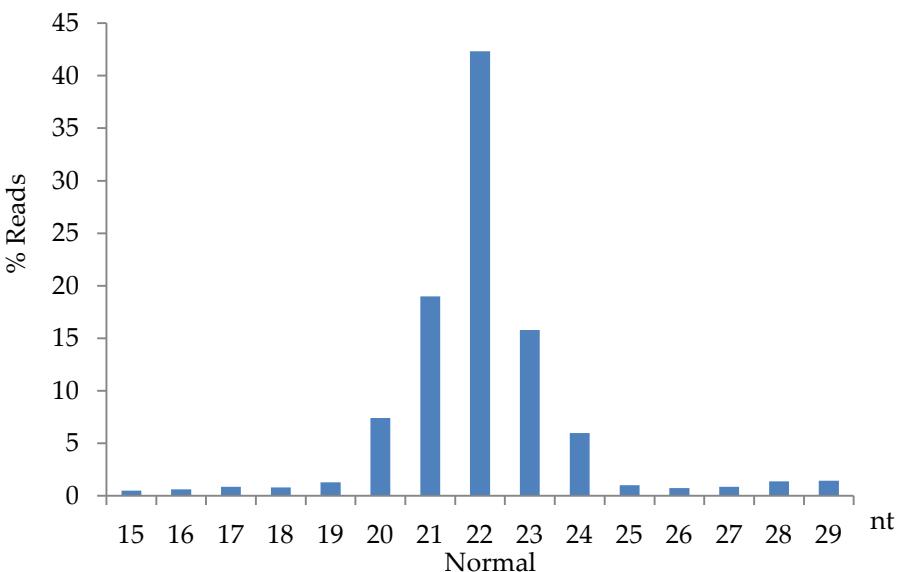


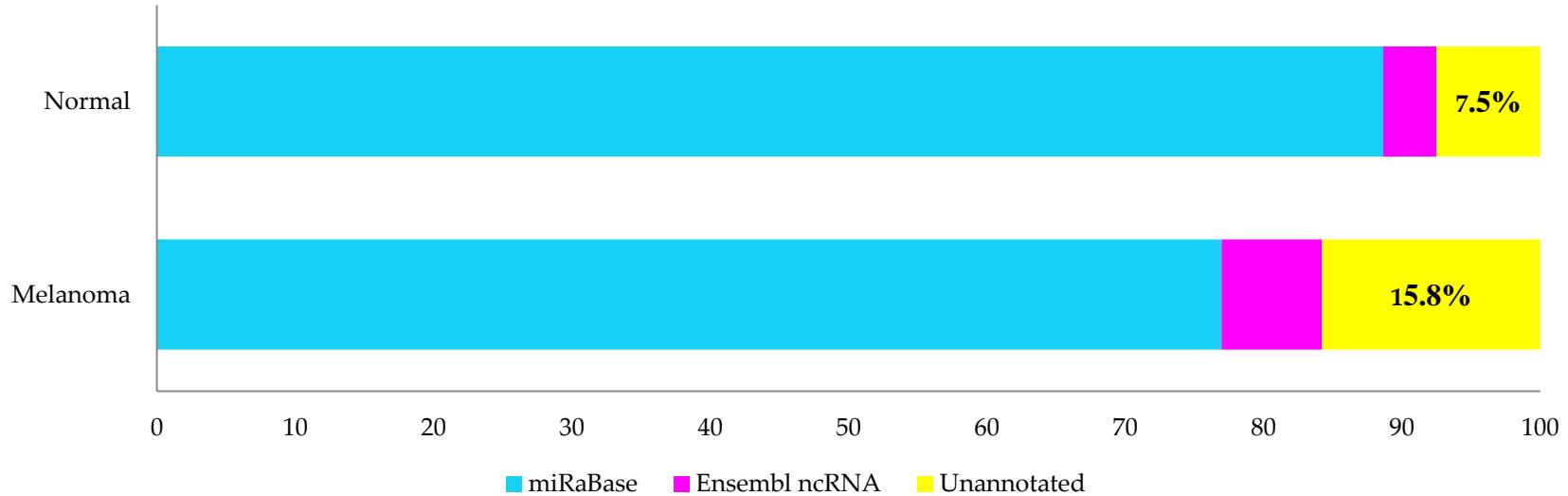
## MiRNA profile in canine oral melanoma

Md. Mahfuzur Rahman, Yu-Chang Lai, Norio Ushio, Al Asmaul Husna, Hui-wen Chen, Yukiko Tanaka, Noriaki Miyoshi, Takayuki Nakagawa, Ryuji Fukushima, Naoki Miura

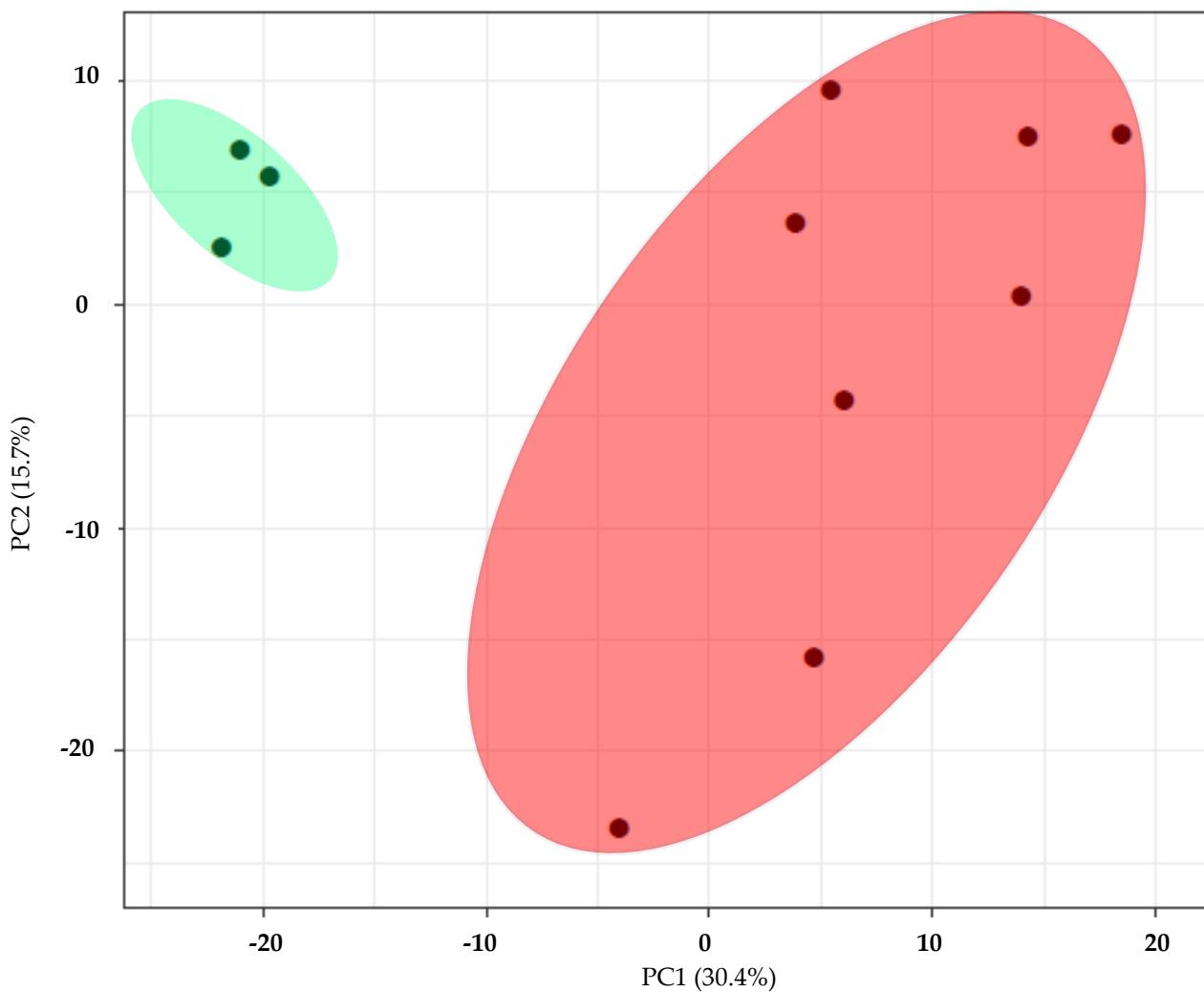
(a)



(b)



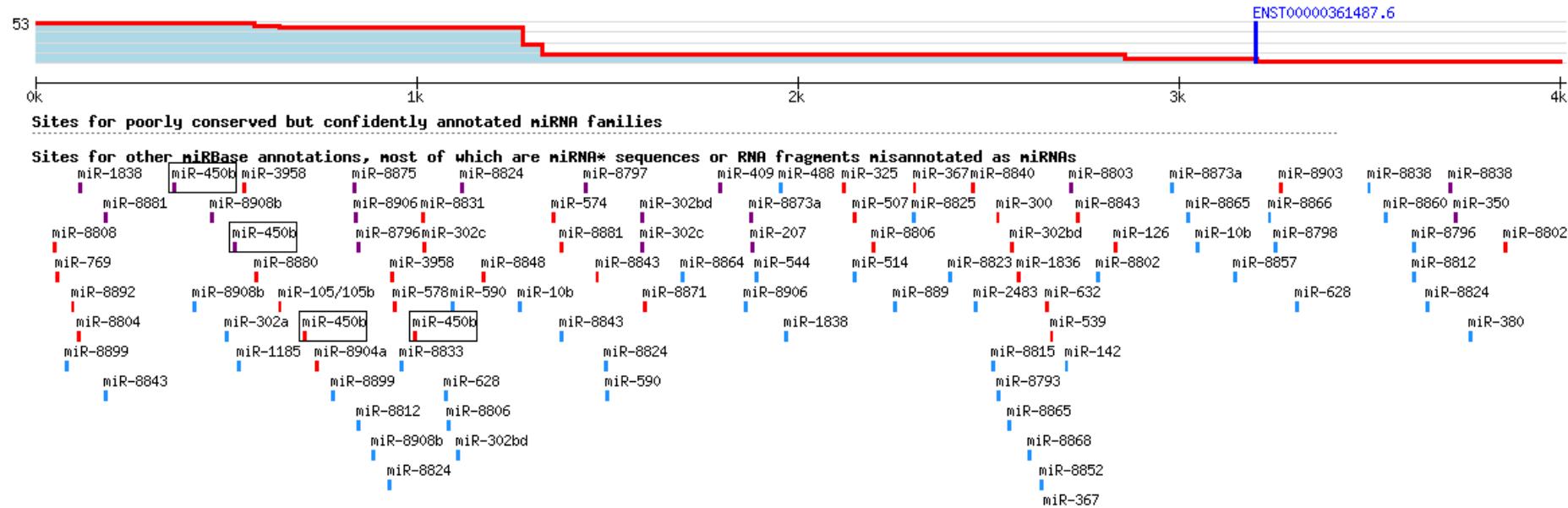
(c)



**Figure S1.** Profile of small RNA reads in canine oral melanoma: **(a)** Length distribution of clean reads in the normal and melanoma libraries; **(b)** Percentages of the clean reads annotated by the miRbase and Ensembl non-coding RNA databases; **(c)** Principal component analysis (PCA) of normal (green) and melanoma (pink) samples. The miRNAs read counts were normalized and transformed before PCA.

(a)

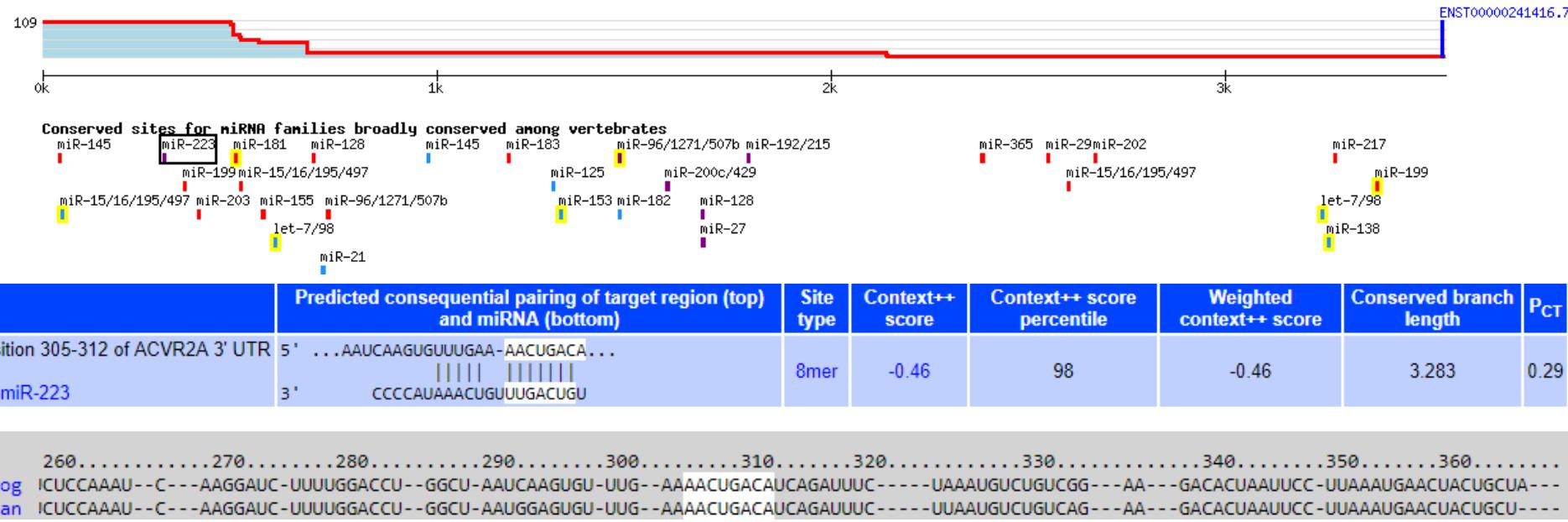
Dog PAX9 ENST00000361487.6 3' UTR length: 4013



.....	350.....	360.....	370.....	380.....	390.....	400.....	410.....	420.....	430.....	440.....
Dog	JCAACCUGAACUUUUGAAACGUGCAA-	-UUGUU-	-GAGA-UUUUGC-	-AAAAUC-	-AAUAAGGAAACUACAU-	-AUAGAAAA-	-AAAA-	-AGUUAUGCUALACCCUCUAUCAAAUAA-		
Human	JCAACCUGAACUUUUGAAUGUGCAA-	-UUGUU-	-GAGA-UUUUGC-	-AAAAUC-	-AAUAAGGAAAACUU-	-AUAG-	-AAAA-	-AAUAUGCUALACCCUCUAUCAAAUAA-		

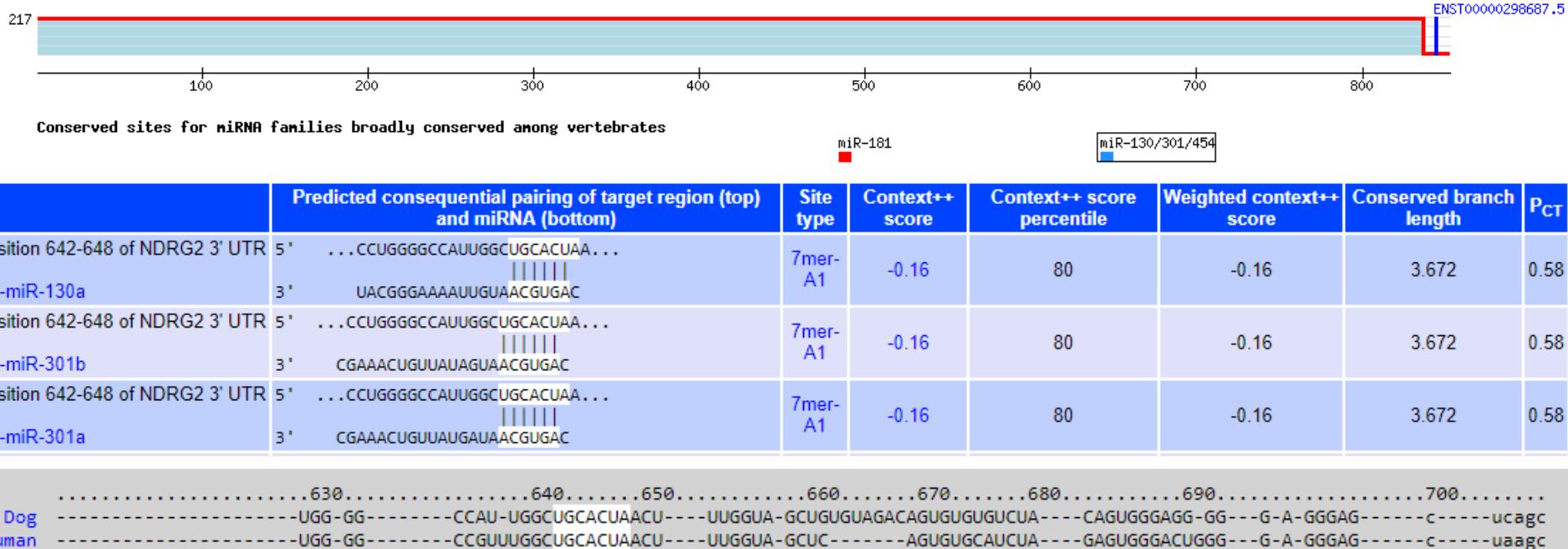
(b)

## Dog ACVR2A ENST00000241416.7 3' UTR length: 3560



(c)

## Dog NDRG2 ENST00000298687.5 3' UTR length: 852



**Figure S2.** Predicted conserved target binding site of miR-450b-PAX9, miR-223-ACVR2A and miR-301a-NDRG2 from TargetScan: (a-c). Predicted binding sites of respective miRNA-mRNA are conserved between human and dog.