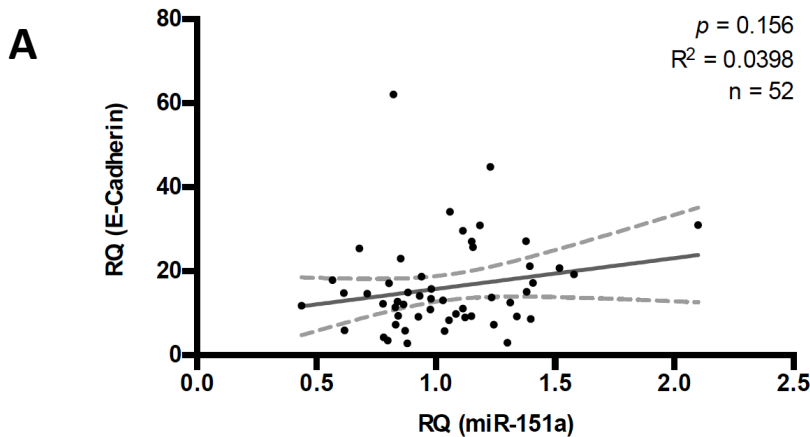


**Supplemental Figure S9: E-cadherin and miR-151a correlation and miR-151a binding site conservation in E-cadherin mRNA. (A)** The correlation between miR-151a and E-cadherin expression in NSCLC patient samples. The relative expression levels of miR-151a and E-cadherin were determined in 52 primary NSCLC samples by RT-qPCR. The potential correlation between miR-151a and E-cadherin expression was investigated by linear regression. The Line of Best Fit is indicated in black with grey dotted lines showing the 95% confidence interval ( $p=0.156$ ,  $R^2 = 0.0398$ ). **(B)** mRNA sequence alignment of Homo sapiens (Z13009), Mouse (X06115), Leopard (XM\_019455447), Gorilla (XM\_004057872), Giant Panda (XM\_002923207), and Cat (XM\_003998189) as well as hsa-miR-151a (seed sequence, motif 1 to 3). Blue indicates homology between  $n \geq 5$ , green represents homology between  $n \geq 4$  and orange represents homology between  $n \geq 3$  species.



**B**

Cat	(149)	CUCCUGCUGCUGCUACAGGU	CGCAUCAGGGCUCUGCCAGGAGCC
Giant panda	(164)	CUCCUGCUGCUGCUACAGGU	CUCAUCAUGGCUAUGCCAGGAGCCG
Gorilla	(216)	CUGCUGCUGCUGCUGCAGGU	UUCUCUUGGCUCUGCCAGGAGCCG
Leopard	(160)	CUCCUGCUGCUGCUACAGGU	CACAUCAGGGCUCUGCCAGGAGCC
Mouse	(99)	CUCCUGCUCUGCUGCAGGU	CUCUCAUGGCUAUGCCAGGAGCUG
Homo sapiens	(125)	CUGCUGCUGCUGCUGCAGGU	CUCUCUUGGCUCUGCCAGGAGCCG
motif 1 E-Cadherin		-----CUCCUC-----	
Consensus	(226)	CU CUGCUGCUGCU CAGGUCUC UC UGGCUCUGCCAGGAGCC	271 315
Cat	(512)	GAAACCCAGACAGAAUGGCUCACAUUCCCAACUCC	AGCAUGGUCUUAG
Giant panda	(533)	GAAACCCAGACAGAAUGGCUCACAUUCCCAACUCC	CAGCGUGGUCUCAG
Gorilla	(585)	GGAAUCCAAGCAGAAUUGCUCACAUUCCCAACUCC	UUCUCUGGCCUCAG
Leopard	(523)	GAAACCCAGACAGAAUGGCUCACAUUCCCAACUCC	CAGCAUGGUCUUAG
Mouse	(474)	GAAUCCAACCAGAGCUGCUC AUGUUCCCAAGCGUG	UACCCAGGUCUCAG
Homo sapiens	(494)	GGAAUCCAAGCAGAAUUGCUCACAUUCCCAACUCC	UUCUCUGGCCUCAG
motif 2 E-Cadherin		-----CUCCUC-----	
Consensus	(601)	G AA CCA CAGAA UGCUCACAUUCCCAACUCC C UGG CU AG	651 700
Cat	(2657)	UUAACUCCUCGGAUACAGACC	GAGAU CAGGACUAUGACUACCUG
Giant panda	(2678)	UUGAACUCCUCA GAGUCAGACC	AAGACCAGGACUAUGACUACCUG
Gorilla	(2727)	CUGAACUCCUCA GAGUCAGACA	AAGACCAGGACUAUGACUACUUG
Mouse	(2616)	CUGAACUCCUCUGAGUCGGAUC	CAGGACCAGGACUACGAUUAUCUG
Leopard	(2668)	UUAACUCCUCGGAUACAGACC	GAGAU CAGGACUAUGACUACCUG
Homo sapiens	(2636)	CUGAACUCCUCA GAGUCAGACA	AAGACCAGGACUAUGACUACUUG
motif 3 E-Cadherin		-----CUCCUC-----	
Consensus	(2746)	UGAACUCCUC GAGUCAGAC AGA CAGGACUAUGACUAC UG	2791 2835

Homology between species  $\geq 5$   
 Homology between species  $\geq 4$   
 Homology between species  $\geq 3$