Supplementary

Table S1: Beclin-1-targeting miRNAs

microRNA family	Seed position	Seed type	Transcript region	Repeat	t Conservation		
					Primates		Other vert.
miR-551a	chr17:40966646			no	89 %	70 %	31 %
miR-7/7ab	chr17:40963678			no	89 %	83 %	8 %
miR-93/93a/105/106a/291a-3p/294/295/302abcde/372/373/428/519a/520be/520acd-3p/1378/1420ac	chr17:40962422	7-mer-A1	3pUTR	no	56 %	0 %	0 %
miR-96/507/1271	chr17:40970871	7-mer-m8	CDS	no	78 %	57 %	38 %
miR-96/507/1271	chr17:40971530			no	78 %	35 %	0 %
miR-138/138ab	chr17:40971067	7-mer-A1	5pUTR	no	67 %	48 %	0 %
miR-139-5p	chr17:40971150	8-mer	5pUTR	no	56 %	26 %	0 %
miR-141/200a	chr17:40966633	7-mer-m8	CDS	no	89 %	70 %	8 %
miR-144	chr17:40962213	7-mer-m8	3pUTR	no	67 %	65 %	8 %
miR-144	chr17:40963797	7-mer-m8	CDS	no	89 %	43 %	15 %
miR-145	chr17:40975812	7-mer-m8	CDS,5pUTR	no	89 %	74 %	31 %
miR-146ac/146b-5p	chr17:40971236	8-mer	5pUTR	no	78 %	22 %	0 %
miR-150/5127	chr17:40971032	7-mer-m8	5pUTR	no	78 %	52 %	0 %
miR-150/5127	chr17:40971049	8-mer	5pUTR	no	100 %	70 %	0 %
miR-15abc/16/16abc/195/322/424/497/1907	chr17:40966580	7-mer-m8	CDS	no	100 %	78 %	38 %
miR-15abc/16/16abc/195/322/424/497/1907	chr17:40966603	7-mer-m8	CDS	no	89 %	57 %	0 %
miR-17/17-5p/20ab/20b-5p/93/106ab/427/518a-3p/519d	chr17:40962637	7-mer-A1	3pUTR	no	100 %	78 %	15 %
miR-182	chr17:40971530	8-mer	5pUTR	no	78 %	35 %	0 %
miR-187	chr17:40963690	7-mer-m8	CDS	no	100 %	52 %	15 %
miR-187	chr17:40975808	7-mer-A1	CDS,5pUTR	no	89 %	65 %	0 %
miR-199ab-5p	chr17:40962451			no	100 %	70 %	0 %
miR-21/590-5p	chr17:40967964	7-mer-m8	CDS	no	56 %	4 %	0 %
miR-216a	chr17:40962467	7-mer-m8	3pUTR	no	67 %	48 %	0 %
miR-216a	chr17:40966612	8-mer	CDS	no	100 %	52 %	23 %
miR-216b/216b-5p	chr17:40962192	7-mer-m8	3pUTR	no	100 %	65 %	0 %
miR-216b/216b-5p	chr17:40966612	7-mer-A1	CDS	no	100 %	52 %	23 %
miR-219-5p/508/508-3p/4782-3p	chr17:40966666	7-mer-A1	CDS	no	78 %	61 %	8 %
miR-29abcd	chr17:40970981	7-mer-m8	5pUTR	no	78 %	17 %	0 %
miR-30abcdef/30abe-5p/384-5p	chr17:40962673	8-mer	3pUTR	no	100 %	91 %	31 %
miR-31	chr17:40971532	7-mer-A1	5pUTR	no	78 %	43 %	0 %
miR-103a/107/107ab	chr17:40962164	7-mer-A1	3pUTR	no	56 %	30 %	8 %
miR-103a/107/107ab	chr17:40966604			no	100 %	78 %	0 %
miR-103a/107/107ab	chr17:40971228	7-mer-A1	5pUTR	no	56 %	0 %	0 %
miR-124/124ab/506	chr17:40962749	7-mer-A1	3pUTR	no	89 %	57 %	15 %
miR-33ab/33-5p	chr17:40967939	7-mer-A1	CDS	no	67 %	43 %	31 %
miR-129-5p/129ab-5p	chr17:40962662	7-mer-A1	3pUTR	no	100 %	52 %	15 %

Table S2: B	BCAR4-targeting	miRNAs
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microRNA family		Sood type	Transcript region	Popoat	. Conservation		
		seeu type		Repeat	Primates	Mammals	Other vert.
miR-503	chr1:94054762		CDS,ncRNA	no	89 %	70 %	0 %
miR-7/7ab	chr1:94033410	7-mer-A1	ncRNA	no	78 %	52 %	0 %
miR-7/7ab	chr1:94054711	7-mer-A1	CDS,ncRNA	no	89 %	78 %	46 %
miR-133abc	chr1:94114361	7-mer-m8	ncRNA	no	67 %	0 %	0 %
miR-93/93a/105/106a/291a-3p/294/295/302abcde/372/373/428/519a/520be/520acd-3p/1378/1420ad	chr1:94054866	7-mer-m8	CDS,ncRNA	no	89 %	74 %	46 %
miR-138/138ab	chr1:94041592	7-mer-m8	CDS	no	89 %	65 %	8 %
miR-146ac/146b-5p	chr1:94057945	7-mer-m8	CDS,ncRNA	no	89 %	78 %	23 %
miR-150/5127	chr1:94079639	7-mer-A1	5pUTR	no	89 %	43 %	0 %
miR-150/5127	chr1:94114344	7-mer-A1	ncRNA	no	78 %	0 %	0 %
miR-155	chr1:94054665			no	0 %	0 %	0 %
miR-15abc/16/16abc/195/322/424/497/1907	chr1:94054762			no	89 %	70 %	0 %
miR-15abc/16/16abc/195/322/424/497/1907	chr1:94079435			no	100 %	83 %	38 %
miR-15abc/16/16abc/195/322/424/497/1907	chr1:94147375			no	67 %	4 %	0 %
miR-17/17-5p/20ab/20b-5p/93/106ab/427/518a-3p/519d	chr1:94037341			no	89 %	30 %	0 %
let-7/98/4458/4500			5pUTR,ncRNA	yes	44 %	39 %	0%
miR-19ab	chr1:94027647			no	89 %	78 %	31 %
miR-1ab/206/613					78 %	0 %	0 %
miR-100/200/013 miR-203	chr1:94188935			no	78 %	52 %	15 %
	chr1:94027429			no			
miR-203	chr1:94027927			no	89 %	48 %	23 %
miR-204/204b/211	chr1:94054619		CDS	no	0 %	0 %	0 %
miR-205/205ab	chr1:94032957		1	no	100 %	65 %	0 %
miR-205/205ab	chr1:94033301			no	78 %	39 %	46 %
miR-205/205ab	chr1:94037285		CDS	no	78 %	26 %	69 %
miR-214/761/3619-5p	chr1:94033004			no	78 %	74 %	31 %
miR-214/761/3619-5p	chr1:94147377			no	67 %	4 %	0 %
miR-216a	chr1:94055908	7-mer-A1	ncRNA	yes	89 %	17 %	0 %
miR-216b/216b-5p	chr1:94055908	7-mer-A1	ncRNA	yes	89 %	17 %	0 %
miR-217	chr1:94054813	7-mer-A1	CDS,ncRNA	no	67 %	74 %	0 %
miR-217	chr1:94079469	7-mer-m8	CDS	no	56 %	22 %	0 %
miR-22/22-3p	chr1:94048067	7-mer-m8	CDS,ncRNA	no	44 %	0 %	0 %
miR-22/22-3p	chr1:94188993	7-mer-A1	ncRNA	no	33 %	0 %	0 %
miR-122/122a/1352	chr1:94140258	7-mer-A1	CDS	no	67 %	26 %	0 %
miR-23abc/23b-3p	chr1:94107861		CDS,ncRNA	no	89 %	74 %	23 %
miR-24/24ab/24-3p	chr1:94048417	7-mer-m8	CDS.ncRNA	no	100 %	52 %	31 %
miR-24/24ab/24-3p	chr1:94054591			no	56 %	61 %	31 %
miR-24/24ab/24-3p	chr1:94055876		ncRNA	yes	89 %	4 %	0 %
miR-24/24ab/24-3p	chr1:94055919		ncRNA	yes	56 %	43 %	0 %
miR-25/32/92abc/363/363-3p/367	chr1:94108742			yes	56 %	0 %	0%
miR-26ab/1297/4465	chr1:94048114			yes	67 %	61 %	0 %
miR-27abc/27a-3p	chr1:94032921		CDS,ncRNA	no	100 %	35 %	38 %
miR-27abc/27a-3p	chr1:94048251		CDS,ncRNA	no	100 %	70 %	8%
miR-29abcd			5pUTR,ncRNA	yes	89 %	35 %	0 %
miR-238/338-3p	chr1:94050595		5pUTR.ncRNA	no	89 %	43 %	0%
						43 %	0%
miR-338/338-3p	chr1:94188910			no	44 %		
miR-33a-3p/365/365-3p	chr1:94033487			yes	22 %	0 %	0 %
miR-33ab/33-5p	chr1:94188872		ncRNA	no	33 %	0%	0 %
miR-34ac/34bc-5p/449abc/449c-5p	chr1:94033351		CDS,ncRNA	no	67 %	13 %	23 %
miR-125a-5p/125b-5p/351/670/4319	chr1:94107897			no	100 %	74 %	15 %
miR-10abc/10a-5p	chr1:94033567			yes	67 %	0 %	0 %
miR-455-5p	chr1:94057930			no	67 %	22 %	0 %
miR-455-5p			5pUTR,ncRNA	yes	44 %	0 %	0 %
miR-128/128ab	chr1:94048252	7-mer-A1	CDS,ncRNA	no	100 %	70 %	8 %
miR-490-3p	chr1:94033662	7 mor m9	DODNA.	yes	22 %	0%	0 %