

# Supplemental Figure 1

Tissue	miRNA Family	Mature miRNA in Dog (cfa)	Mature miRNA in Human (hsa)	Mature miRNA in Rat (rno)	Enrichment
Brain	miR-105a	cfa-miR-105a	hsa-miR-105-5p		HTE
Brain	miR-105b	cfa-miR-105b			HTE
Brain	miR-124	cfa-miR-124	hsa-miR-124-3p	rno-miR-124-3p	HTE
Brain	miR-128	cfa-miR-128	hsa-miR-128-3p	rno-miR-128-3p	HTE
Brain	miR-132	cfa-miR-132	hsa-miR-132-3p	rno-miR-132-3p	HTE
Brain	miR-137	cfa-miR-137	hsa-miR-137	rno-miR-137-3p	HTE
Brain	miR-138a	cfa-miR-138a	hsa-miR-138-5p	rno-miR-138-5p	HTE
Brain	miR-149	cfa-miR-149	hsa-miR-149-5p	rno-miR-149-5p	HTE
Brain	miR-212	cfa-miR-212	hsa-miR-212-5p	rno-miR-212-5p	HTE
Brain	miR-219	cfa-miR-219-3p	hsa-miR-219a-2-3p_hsa-miR-219b-5p	rno-miR-219a-2-3p_rno-miR-219b	HTE
Brain	miR-323	cfa-miR-323	hsa-miR-323a-3p	rno-miR-323-3p	HTE
Brain	miR-380	cfa-miR-380			HTE
Brain	miR-410	cfa-miR-410	hsa-miR-410-3p	rno-miR-410-3p	HTE
Brain	miR-487a	cfa-miR-487a	hsa-miR-487a-3p		HTE
Brain	miR-487b	cfa-miR-487b	hsa-miR-487b-3p	rno-miR-487b-3p	HTE
Brain	miR-874	cfa-miR-874	hsa-miR-874-3p	rno-miR-874-3p	HTE
Brain	miR-889	cfa-miR-889	hsa-miR-889-3p		HTE
Brain	miR-9-5p	cfa-miR-9	hsa-miR-9-5p	rno-miR-9a-5p_rno-miR-9b-3p	HTE
Brain	miR-92b	cfa-miR-92b	hsa-miR-92b-3p	rno-miR-92b-3p	HTE
Brain	miR-105		hsa-miR-105-3p		HTE
Brain	miR-128		hsa-miR-128-1-5p	rno-miR-128-1-5p	HTE
Brain	miR-129		hsa-miR-129-2-3p	rno-miR-129-2-3p_rno-miR-129-1-3p	HTE
Brain	miR-1298		hsa-miR-1298-5p	rno-miR-1298	HTE
Brain	miR-132		hsa-miR-132-5p	rno-miR-132-5p	HTE
Brain	miR-136		hsa-miR-136-3p	rno-miR-136-3p	HTE
Brain	miR-139		hsa-miR-139-5p	rno-miR-139-5p	HTE
Brain	miR-212		hsa-miR-212-3p	rno-miR-212-3p	HTE
Brain	miR-431		hsa-miR-431-3p		HTE
Brain	miR-487a		hsa-miR-487a-5p		HTE
Brain	miR-9a-3p		hsa-miR-9a-3p	rno-miR-9b-5p	HTE
Brain, Sciatic Nerve	miR-1249	cfa-miR-1249	hsa-miR-1249-3p	rno-miR-1249	TE
Brain, Sciatic Nerve	miR-127	cfa-miR-127	hsa-miR-127-3p	rno-miR-127-3p	TE
Brain, Sciatic Nerve	miR-184	cfa-miR-184	hsa-miR-184	rno-miR-184	HTE
Brain, Sciatic Nerve	miR-411	cfa-miR-411	hsa-miR-411-5p		TE
Brain, Sciatic Nerve	miR-432	cfa-miR-432	hsa-miR-432-5p		TE
Brain, Sciatic Nerve	miR-504	cfa-miR-504	hsa-miR-504-5p		TE
Brain, Sciatic Nerve	miR-338		hsa-miR-338-5p	rno-miR-338-5p_rno-miR-3065-3p	TE
Brain, Sciatic Nerve	miR-382		hsa-miR-382-5p	rno-miR-382-5p	TE
Brain, Sciatic Nerve	miR-411		hsa-miR-411-3p	rno-miR-411-3p	TE
Brain, Sciatic Nerve	miR-744		hsa-miR-744-5p		TE
Brain, Testis	miR-146b	cfa-miR-146b	hsa-miR-146b-5p	rno-miR-146b-5p	TE
Brain, Testis	miR-335	cfa-miR-335	hsa-miR-335-5p	rno-miR-335	TE
Brain, Testis	miR-335		hsa-miR-335-3p		TE
Brain, Testis	miR-873		hsa-miR-873-5p	rno-miR-873-5p	TE
Brain, Jejunum	miR-342	cfa-miR-342	hsa-miR-342-3p	rno-miR-342-3p	TE
Brain, Liver	miR-885	cfa-miR-885	hsa-miR-885-5p		TE
Brain, Pancreas	miR-135a	cfa-miR-135a-5p	hsa-miR-135a-5p	rno-miR-135a-5p	TE
Brain, Pancreas	miR-153	cfa-miR-153	hsa-miR-153-3p	rno-miR-153-3p	TE
Bone Marrow	miR-8865	cfa-miR-8865			HTE
Bone Marrow, Brain	miR-129	cfa-miR-129	hsa-miR-129-5p	rno-miR-129-5p	TE
Bone Marrow, Brain	miR-628	cfa-miR-628	hsa-miR-628-5p		TE
Bone Marrow, Brain	miR-7	cfa-miR-7	hsa-miR-3529-3p	rno-miR-7a-5p	HTE
Bone Marrow, Brain	miR-129-1		hsa-miR-129-1-3p	rno-miR-129-1-3p	TE
Bone Marrow, Jejunum	miR-374b	cfa-miR-374b	hsa-miR-374b-5p_hsa-miR-374c-3p	rno-miR-374-5p_rev	TE
Bone Marrow, Plasma	miR-144	cfa-miR-144	hsa-miR-144-3p	rno-miR-144-3p	TE
Bone Marrow, Plasma	miR-25	cfa-miR-25	hsa-miR-25-3p	rno-miR-25-3p	TE
Bone Marrow, Plasma	miR-451	cfa-miR-451	hsa-miR-451a	rno-miR-451-5p	TE
Bone Marrow, Plasma	miR-144		hsa-miR-144-5p	rno-miR-144-5p	HTE
Bone Marrow, Testis	miR-450a	cfa-miR-450a	hsa-miR-450a-5p	rno-miR-450b-5p	TE
Bone Marrow, Testis	miR-450b	cfa-miR-450b	hsa-miR-450b-5p		TE
Colon, Ileum	miR-147	cfa-miR-147	hsa-miR-147b	rno-miR-147	TE
Heart	miR-499	cfa-miR-499	hsa-miR-499a-5p	rno-miR-499-5p	HTE
Heart, Striated Muscle	miR-1	cfa-miR-1	hsa-miR-1-3p	rno-miR-1b	TE
Heart, Striated Muscle	miR-133a	cfa-miR-133a	hsa-miR-133a-3p	rno-miR-133c_rno-miR-133a-3p	HTE
Heart, Striated Muscle	miR-133b	cfa-miR-133b	hsa-miR-133b	rno-miR-133b-3p	TE
Heart, Striated Muscle	miR-208b	cfa-miR-208b	hsa-miR-208b-3p	rno-miR-208b-3p	TE
Heart, Striated Muscle	miR-133a		hsa-miR-133a-5p	rno-miR-133a-5p	HTE
Ileum, Jejunum	miR-215	cfa-miR-215			TE
Liver	miR-122	cfa-miR-122	hsa-miR-122-5p_hsa-miR-3591-3p	rno-miR-122-5p_rno-miR-3591-3p	HTE
Liver	miR-3591		hsa-miR-122-3p_hsa-miR-3591-5p		HTE
Liver, Pancreas	miR-148a-5p		hsa-miR-148a-5p		TE
Pancreas	miR-148a-3p	cfa-miR-148a	hsa-miR-148a-3p	rno-miR-148a-3p	HTE
Pancreas	miR-216a	cfa-miR-216a	hsa-miR-216a-5p	rno-miR-216a-5p	HTE
Pancreas	miR-216b	cfa-miR-216b	hsa-miR-216b-5p	rno-miR-216b-5p	HTE
Pancreas	miR-217	cfa-miR-217	hsa-miR-217		HTE
Pancreas	miR-375	cfa-miR-375	hsa-miR-375	rno-miR-375-3p	HTE
Pancreas	miR-216a			rno-miR-216a-3p	HTE
Pancreas	miR-217			rno-miR-217-3p	HTE
Pancreas, Jejunum	miR-141	cfa-miR-141	hsa-miR-141-3p	rno-miR-141-3p	TE
Pancreas, Jejunum	miR-802	cfa-miR-802	hsa-miR-802	rno-miR-802-5p	TE
Plasma	miR-423a	cfa-miR-423a	hsa-miR-423-5p_rev_hsa-miR-3184-3p	rno-miR-423-5p	HTE
Plasma	miR-16			rno-miR-16-3p	HTE
Plasma, Brain	miR-107	cfa-miR-107	hsa-miR-107	rno-miR-107-3p	TE
Plasma, Brain	miR-383	cfa-miR-383	hsa-miR-383-5p		TE
Plasma, Brain	miR-331		hsa-miR-331-5p		TE
Plasma, Ileum	miR-15a	cfa-miR-15a	hsa-miR-15a-5p	rno-miR-15a-5p	TE
Sciatic Nerve, Thymus	miR-193a	cfa-miR-193a	hsa-miR-193a-5p		TE
Striated Muscle	miR-206	cfa-miR-206	hsa-miR-206	rno-miR-206-3p	HTE
Testis	miR-202	cfa-miR-202	hsa-miR-202-5p	rno-miR-202-5p	HTE
Testis	miR-34b	cfa-miR-34b		rno-miR-34b-5p	HTE
Testis	miR-34c	cfa-miR-34c	hsa-miR-34c-5p	rno-miR-34c-5p	HTE
Testis	miR-449a	cfa-miR-449a	hsa-miR-449a	rno-miR-449a-5p	HTE
Testis	miR-506	cfa-miR-506			HTE
Testis	miR-507b	cfa-miR-507b			HTE
Testis	miR-508a	cfa-miR-508a			HTE
Testis	miR-508b	cfa-miR-508b			HTE
Testis	miR-8831	cfa-miR-8831			HTE
Testis	miR-8908a-3p	cfa-miR-8908a-3p			HTE
Testis	miR-8908a-5p	cfa-miR-8908a-5p			HTE
Testis	miR-8908b	cfa-miR-8908b			HTE
Testis	miR-8908c	cfa-miR-8908c			HTE
Testis	miR-34b		hsa-miR-34b-3p	rno-miR-34b-3p	HTE
Testis	miR-34c		hsa-miR-34c-3p		HTE
Testis	miR-449b		hsa-miR-449b-5p		HTE
Testis, Thymus	miR-106a	cfa-miR-106a	hsa-miR-106a-5p		TE
Testis, Thymus	miR-205	cfa-miR-205	hsa-miR-205-5p	rno-miR-205	HTE