

Table SVIII. Predictions of target genes for miRNAs potentially sponged to hsa_circ_0043278.

miRNA	Gene	miRDB	miRTarBase	TargetScan	Sum
hsa-miR-922	TAX1BP3	1	1	1	3
hsa-miR-922	ATP1B3	1	1	1	3
hsa-miR-3148	ALKBH5	1	1	1	3
hsa-miR-129-5p	CDK6	1	1	1	3
hsa-miR-4790-3p	C3orf30	1	1	1	3
hsa-miR-6124	ZMAT3	1	1	1	3
hsa-miR-4328	GPR180	1	1	1	3
hsa-miR-129-5p	GNAQ	1	1	1	3
hsa-miR-6875-3p	SLC38A9	1	1	1	3
hsa-miR-3148	CCDC71L	1	1	1	3
hsa-miR-4267	ABCD2	1	1	1	3
hsa-miR-8080	ABHD2	1	1	1	3
hsa-miR-578	STK24	1	1	1	3
hsa-miR-129-5p	FNIP2	1	1	1	3
hsa-miR-4468	EFNA3	1	1	1	3
hsa-miR-922	NRAS	1	1	1	3
hsa-miR-6875-3p	DCAF7	1	1	1	3
hsa-miR-129-5p	KANK4	1	1	1	3
hsa-miR-3148	ARL11	1	1	1	3
hsa-miR-4328	ETS1	1	1	1	3
hsa-miR-5089-5p	EMC1	1	1	1	3
hsa-miR-6842-3p	UBN2	1	1	1	3
hsa-miR-4731-5p	THRA	1	1	1	3
hsa-miR-4328	RBM43	1	1	1	3
hsa-miR-3192-5p	SLC35E1	1	1	1	3

hsa-miR-4668-3p	RPS6KB1	1	1	1	3
hsa-miR-638	SOX2	1	1	1	3
hsa-miR-223-3p	CDC27	1	1	1	3
hsa-miR-224-5p	HOXD10	1	1	1	3
hsa-miR-4790-3p	SLC35F1	1	1	1	3
hsa-miR-4328	CXCR6	1	1	1	3
hsa-miR-578	WNT5A	1	1	1	3
hsa-miR-3148	SLC25A36	1	1	1	3
hsa-miR-4496	H3F3B	1	1	1	3
hsa-miR-6124	DDA1	1	1	1	3
hsa-miR-3138	RPL10	1	1	1	3
hsa-miR-129-5p	SESN3	1	1	1	3
hsa-miR-4328	BCAT1	1	1	1	3
hsa-miR-4291	SHOC2	1	1	1	3
hsa-miR-5089-5p	KIF1C	1	1	1	3
hsa-miR-5089-5p	TM7SF3	1	1	1	3
hsa-miR-129-5p	SEMA6A	1	1	1	3
hsa-miR-129-5p	LRRC2	1	1	1	3
hsa-miR-4328	FOXN2	1	1	1	3
hsa-miR-4274	BAG4	1	1	1	3
hsa-miR-6875-3p	MAK16	1	1	1	3
hsa-miR-5589-5p	IRAK4	1	1	1	3
hsa-miR-4468	PLEKHA6	1	1	1	3
hsa-miR-4731-5p	BBS1	1	1	1	3
hsa-miR-129-5p	HNRNPA3	1	1	1	3
hsa-miR-4668-3p	PITPNB	1	1	1	3
hsa-miR-223-3p	FOXO3	1	1	1	3
hsa-miR-4291	STX6	1	1	1	3

hsa-miR-1197	ATP1B3	1	1	1	3
hsa-miR-3688-3p	MKL2	1	1	1	3
hsa-miR-224-5p	HIPK3	1	1	1	3
hsa-miR-4731-5p	ZBTB46	1	1	1	3
hsa-miR-4496	PRICKLE2	1	1	1	3
hsa-miR-922	CCDC88C	1	1	1	3
hsa-miR-3148	PTMA	1	1	1	3
hsa-miR-223-3p	POLR3G	1	1	1	3
hsa-miR-4731-5p	MIDN	1	1	1	3
hsa-miR-4731-5p	HIP1	1	1	1	3
hsa-miR-3192-5p	MAT2A	1	1	1	3
hsa-miR-3148	TPM4	1	1	1	3
hsa-miR-4328	FBXW7	1	1	1	3
hsa-miR-4468	TFCP2L1	1	1	1	3
hsa-miR-5589-5p	BBS1	1	1	1	3
hsa-miR-4694-3p	TULP4	1	1	1	3
hsa-miR-4790-3p	WDR26	1	1	1	3
hsa-miR-4700-3p	CAB39	1	1	1	3
hsa-miR-922	G3BP2	1	1	1	3
hsa-miR-129-5p	C1S	1	1	1	3
hsa-miR-597-5p	COX15	1	1	1	3
hsa-miR-6875-3p	SRSF12	1	1	1	3
hsa-miR-592	ERBB3	1	1	1	3
hsa-miR-223-3p	EPB41L3	1	1	1	3
hsa-miR-3148	HAPLN1	1	1	1	3
hsa-miR-4328	VKORC1L1	1	1	1	3
hsa-miR-3148	RAD21	1	1	1	3
hsa-miR-5089-5p	RBL1	1	1	1	3

hsa-miR-6124	LCOR	1	1	1	3
hsa-miR-4267	BTG2	1	1	1	3
hsa-miR-4274	CAPZA1	1	1	1	3
hsa-miR-4291	LIN7C	1	1	1	3
hsa-miR-3148	GABRB1	1	1	1	3
hsa-miR-3148	CCDC6	1	1	1	3
hsa-miR-922	SHOC2	1	1	1	3
hsa-miR-6885-3p	PDS5A	1	1	1	3
hsa-miR-129-5p	EBF1	1	1	1	3
hsa-miR-3148	SLC5A3	1	1	1	3
hsa-miR-223-3p	RHOB	1	1	1	3
hsa-miR-5089-5p	STAU1	1	1	1	3
hsa-miR-4267	RAPGEF6	1	1	1	3
hsa-miR-3192-5p	BTF3L4	1	1	1	3
hsa-miR-578	ARID1B	1	1	1	3
hsa-miR-5190	SLC39A9	1	1	1	3
hsa-miR-4496	CTTNBP2NL	1	1	1	3
hsa-miR-3688-3p	H3F3A	1	1	1	3
hsa-miR-4276	ZNF805	1	1	1	3
hsa-miR-1910-5p	MTHFD2	1	1	1	3
hsa-miR-597-5p	JMY	1	1	1	3
hsa-miR-647	HNRNPF	1	1	1	3
hsa-miR-6124	CSDE1	1	1	1	3
hsa-miR-223-3p	PRDM1	1	1	1	3
hsa-miR-4790-3p	SERBP1	1	1	1	3
hsa-miR-4731-5p	TMEM127	1	1	1	3
hsa-miR-4274	PDIA6	1	1	1	3
hsa-miR-5089-5p	ZDHHC15	1	1	1	3

hsa-miR-3200-5p	LONRF1	1	1	1	3
hsa-miR-4519	OSBPL3	1	1	1	3
hsa-miR-4694-3p	PA2G4	1	1	1	3
hsa-miR-3148	TP53INP1	1	1	1	3
hsa-miR-6124	FOXN2	1	1	1	3
hsa-miR-922	TM9SF3	1	1	1	3
hsa-miR-3148	ZFP91	1	1	1	3
hsa-miR-3200-5p	WDR26	1	1	1	3
hsa-miR-4468	NRAS	1	1	1	3
hsa-miR-4731-5p	GRIK3	1	1	1	3
hsa-miR-4700-3p	MAU2	1	1	1	3
hsa-miR-224-5p	AP2M1	1	1	1	3
hsa-miR-4694-3p	TNFRSF21	1	1	1	3
hsa-miR-5089-5p	GGA2	1	1	1	3
hsa-miR-6875-3p	MOB3B	1	1	1	3
hsa-miR-3688-3p	SRP9	1	1	1	3
hsa-miR-3688-3p	CLDN1	1	1	1	3
hsa-miR-3148	VIM	1	1	1	3
hsa-miR-578	DOK6	1	1	1	3
hsa-miR-3148	FBN2	1	1	1	3
hsa-miR-4468	CNIH4	1	1	1	3
hsa-miR-224-5p	KCTD2	1	1	1	3
hsa-miR-129-5p	SPRY4	1	1	1	3
hsa-miR-3148	LACC1	1	1	1	3
hsa-miR-4291	MED23	1	1	1	3
hsa-miR-3192-5p	TMEM63C	1	1	1	3
hsa-miR-561-5p	ALDH5A1	1	1	1	3
hsa-miR-3200-5p	ONECUT2	1	1	1	3

hsa-miR-6875-3p	SLC1A1	1	1	1	3
hsa-miR-647	SRRM4	1	1	1	3
hsa-miR-5197-5p	MB21D2	1	1	1	3
hsa-miR-4291	UBE2V1	1	1	1	3
hsa-miR-223-3p	F3	1	1	1	3
hsa-miR-6124	AMOTL2	1	1	1	3
hsa-miR-4496	KIF3A	1	1	1	3
hsa-miR-5089-5p	C11orf54	1	1	1	3
hsa-miR-6830-5p	TMCC1	1	1	1	3
hsa-miR-6124	ABCC9	1	1	1	3
hsa-miR-5190	YWHAE	1	1	1	3
hsa-miR-3148	ENTHD1	1	1	1	3
hsa-miR-4778-3p	RBM47	1	1	1	3
hsa-miR-4328	ZBTB41	1	1	1	3
hsa-miR-6885-3p	FAM46A	1	1	1	3
hsa-miR-4267	SMG1	1	1	1	3
hsa-miR-578	PPP3R1	1	1	1	3
hsa-miR-4328	SLC17A5	1	1	1	3
hsa-miR-3688-3p	SERP1	1	1	1	3
hsa-miR-4700-3p	MORF4L2	1	1	1	3
hsa-miR-4267	ZNF578	1	1	1	3
hsa-miR-3148	SOX6	1	1	1	3
hsa-miR-4328	G3BP1	1	1	1	3
hsa-miR-6124	SESN2	1	1	1	3
hsa-miR-6875-3p	SUSD5	1	1	1	3
hsa-miR-5197-5p	MBNL1	1	1	1	3
hsa-miR-6885-3p	STON2	1	1	1	3
hsa-miR-224-5p	AKIRIN1	1	1	1	3

hsa-miR-4697-3p	PAX4	1	1	1	3
hsa-miR-223-3p	IGF1R	1	1	1	3
hsa-miR-4790-3p	PSAT1	1	1	1	3
hsa-miR-4519	SNX16	1	1	1	3
hsa-miR-6842-3p	SUPT16H	1	1	1	3
hsa-miR-6885-3p	ZFAND1	1	1	1	3
hsa-miR-922	KIF5B	1	1	1	3
hsa-miR-129-5p	ETV6	1	1	1	3
hsa-miR-6124	CREBZF	1	1	1	3
hsa-miR-4328	H3F3B	1	1	1	3
hsa-miR-3148	ABCC9	1	1	1	3
hsa-miR-4668-3p	ASGR1	1	1	1	3
hsa-miR-889-5p	UNC80	1	1	1	3
hsa-miR-6875-3p	CDK13	1	1	1	3
hsa-miR-4291	ZNF417	1	1	1	3
hsa-miR-4519	UBE2D3	1	1	1	3
hsa-miR-4778-3p	GRIK3	1	1	1	3
hsa-miR-3148	TAB2	1	1	1	3
hsa-miR-6885-3p	PALM2	1	1	1	3
hsa-miR-5089-5p	BHMT2	1	1	1	3
hsa-miR-4276	NOTCH2NL	1	1	1	3
hsa-miR-4731-5p	CCDC86	1	1	1	3
hsa-miR-5589-5p	KIAA1841	1	1	1	3
hsa-miR-922	SRRM4	1	1	1	3
hsa-miR-4700-3p	BICD2	1	1	1	3
hsa-miR-6124	SHOC2	1	1	1	3
hsa-miR-4291	PCGF3	1	1	1	3
hsa-miR-6885-3p	TRIM8	1	1	1	3

hsa-miR-5197-5p	TM9SF3	1	1	1	3
hsa-miR-5089-5p	IVD	1	1	1	3
hsa-miR-6124	PNISR	1	1	1	3
hsa-miR-4668-3p	CBX5	1	1	1	3
hsa-miR-3148	ZMAT3	1	1	1	3
hsa-miR-5589-5p	YOD1	1	1	1	3
hsa-miR-4778-3p	USP13	1	1	1	3
hsa-miR-4276	ALDH9A1	1	1	1	3
hsa-miR-4276	FYTDD1	1	1	1	3
hsa-miR-6124	MAZ	1	1	1	3
hsa-miR-4694-3p	FOXK2	1	1	1	3
hsa-miR-4731-5p	FOXK1	1	1	1	3
hsa-miR-4731-5p	FAM43A	1	1	1	3
hsa-miR-3148	H1FO	1	1	1	3
hsa-miR-4694-3p	CHML	1	1	1	3
hsa-miR-3192-5p	RRP7A	1	1	1	3
hsa-miR-6875-3p	CSRP3	1	1	1	3
hsa-miR-8080	HIF1AN	1	1	1	3
hsa-miR-4694-3p	PSMA7	1	1	1	3
hsa-miR-1207-3p	SETD5	1	1	1	3
hsa-miR-6885-3p	ARSK	1	1	1	3
hsa-miR-4778-3p	FCRL4	1	1	1	3
hsa-miR-4496	NFIA	1	1	1	3
hsa-miR-3148	SGPL1	1	1	1	3
hsa-miR-922	PAK2	1	1	1	3
hsa-miR-129-5p	EXPH5	1	1	1	3
hsa-miR-223-3p	PTBP2	1	1	1	3
hsa-miR-4700-3p	KPNA4	1	1	1	3

hsa-miR-647	DAB2	1	1	1	3
hsa-miR-4697-3p	RAB34	1	1	1	3
hsa-miR-4700-3p	MRRF	1	1	1	3
hsa-miR-5197-5p	PLEKHA1	1	1	1	3
hsa-miR-4694-3p	UBE2D2	1	1	1	3
hsa-miR-5197-5p	CCNE2	1	1	1	3
hsa-miR-3148	ZXDB	1	1	1	3
hsa-miR-6124	TAF12	1	1	1	3
hsa-miR-3688-3p	EEF2	1	1	1	3
hsa-miR-129-5p	EI24	1	1	1	3
hsa-miR-198	PCDH19	1	1	1	3
hsa-miR-4496	YWHAQ	1	1	1	3
hsa-miR-4694-3p	ANXA5	1	1	1	3
hsa-miR-129-5p	ABCC5	1	1	1	3
hsa-miR-4328	TLN2	1	1	1	3
hsa-miR-4328	MAP3K3	1	1	1	3
hsa-miR-922	KIAA1456	1	1	1	3
hsa-miR-889-5p	NSA2	1	1	1	3
hsa-miR-129-5p	RYBP	1	1	1	3
hsa-miR-4274	SOCS5	1	1	1	3
hsa-miR-4731-5p	IGDCC3	1	1	1	3
hsa-miR-6885-3p	ACAP2	1	1	1	3
hsa-miR-129-5p	PRDM1	1	1	1	3
hsa-miR-6885-3p	FBXL3	1	1	1	3
hsa-miR-6816-3p	ATAD5	1	1	1	3
hsa-miR-4328	ITPR1	1	1	1	3
hsa-miR-4328	IMP3	1	1	1	3
hsa-miR-224-5p	DIO1	1	1	1	3

hsa-miR-3148	MAX	1	1	1	3
hsa-miR-224-5p	API5	1	1	1	3
hsa-miR-647	SLC25A25	1	1	1	3
hsa-miR-5190	ANTXR2	1	1	1	3
hsa-miR-4496	KIF5B	1	1	1	3
hsa-miR-4276	SUMO1	1	1	1	3
hsa-miR-6885-3p	OTX1	1	1	1	3
hsa-miR-3192-5p	TRIM4	1	1	1	3
hsa-miR-4694-3p	ZNF518B	1	1	1	3
hsa-miR-4668-3p	CALCR	1	1	1	3
hsa-miR-597-5p	HSPA5	1	1	1	3
hsa-miR-4276	LDHA	1	1	1	3
hsa-miR-6830-5p	PTBP1	1	1	1	3
hsa-miR-4694-3p	BZW1	1	1	1	3
hsa-miR-6875-3p	RBM41	1	1	1	3
hsa-miR-647	NIPBL	1	1	1	3
hsa-miR-129-5p	DAB2	1	1	1	3
hsa-miR-3148	SLC7A1	1	1	1	3
hsa-miR-6875-3p	DDX3X	1	1	1	3
hsa-miR-8080	GNG12	1	1	1	3
hsa-miR-6124	SF1	1	1	1	3
hsa-miR-3688-3p	CD2AP	1	1	1	3
hsa-miR-224-5p	ENC1	1	1	1	3
hsa-miR-223-3p	CFTR	1	1	1	3
hsa-miR-129-5p	REEP1	1	1	1	3
hsa-miR-3688-3p	NUAK2	1	1	1	3
hsa-miR-223-3p	RIF1	1	1	1	3
hsa-miR-4731-5p	SLC10A3	1	1	1	3

hsa-miR-3148	WWTR1	1	1	1	3
hsa-miR-4267	SLC35B1	1	1	1	3
hsa-miR-223-3p	ZNF365	1	1	1	3
hsa-miR-4328	SBNO1	1	1	1	3
hsa-miR-4687-3p	RRS1	1	1	1	3
hsa-miR-4267	UBL4A	1	1	1	3
hsa-miR-7974	PPP1R26	1	1	1	3
hsa-miR-5197-5p	MYC	1	1	1	3
hsa-miR-129-5p	HMGB1	1	1	1	3
hsa-miR-4700-3p	RRM2	1	1	1	3
hsa-miR-4731-5p	KHSRP	1	1	1	3
hsa-miR-223-3p	TOX	1	1	1	3
hsa-miR-4328	SNRNP27	1	1	1	3
hsa-miR-4700-3p	CMTM4	1	1	1	3
hsa-miR-6124	YWHAQ	1	1	1	3
hsa-miR-223-3p	HSP90B1	1	1	1	3
hsa-miR-5197-5p	SLC35G2	1	1	1	3
hsa-miR-4291	TMEM189-	1	1	1	3
hsa-miR-3148	NPPC	1	1	1	3
hsa-miR-4790-3p	MRPS21	1	1	1	3
hsa-miR-129-5p	FMR1	1	1	1	3
hsa-miR-4276	JARID2	1	1	1	3
hsa-miR-129-5p	CBX6	1	1	1	3
hsa-miR-3148	SESN3	1	1	1	3
hsa-miR-4328	LONRF1	1	1	1	3
hsa-miR-922	MNT	1	1	1	3
hsa-miR-3192-5p	TBL1XR1	1	1	1	3
hsa-miR-561-5p	FKBP1A	1	1	1	3

hsa-miR-4694-3p	CORO1C	1	1	1	3
hsa-miR-5197-5p	CHSY1	1	1	1	3
hsa-miR-3200-5p	CHIC1	1	1	1	3
hsa-miR-4276	RAB31	1	1	1	3
hsa-miR-224-5p	TXNIP	1	1	1	3
hsa-miR-4496	NFAT5	1	1	1	3
hsa-miR-4668-3p	PPP1R15B	1	1	1	3
hsa-miR-3200-5p	CLIP4	1	1	1	3
hsa-miR-4496	PRLR	1	1	1	3
hsa-miR-3688-3p	CYB5B	1	1	1	3
hsa-miR-4328	IRF2BP2	1	1	1	3
hsa-miR-6728-5p	GLUL	1	1	1	3
hsa-miR-4694-3p	DCAF17	1	1	1	3
hsa-miR-6842-3p	PCSK6	1	1	1	3
hsa-miR-4519	SESN3	1	1	1	3
hsa-miR-4694-3p	CAPRIN1	1	1	1	3
hsa-miR-224-5p	PTX3	1	1	1	3
hsa-miR-3148	MALT1	1	1	1	3
hsa-miR-578	COL19A1	1	1	1	3
hsa-miR-4778-3p	JUND	1	1	1	3
hsa-miR-4328	MSMO1	1	1	1	3
hsa-miR-4731-5p	CDT1	1	1	1	3
hsa-miR-922	ZNF706	1	1	1	3
hsa-miR-4276	HS3ST1	1	1	1	3
hsa-miR-4328	CREBBP	1	1	1	3
hsa-miR-3688-3p	YWHAQ	1	1	1	3
hsa-miR-592	PTPRJ	1	1	1	3
hsa-miR-4276	HHLA2	1	1	1	3

hsa-miR-4519	ARL8B	1	1	1	3
hsa-miR-7974	FKBP15	1	1	1	3
hsa-miR-4291	TMEM248	1	1	1	3
hsa-miR-129-5p	NWD1	1	1	1	3
hsa-miR-6830-5p	SLC12A7	1	1	1	3
hsa-miR-4700-3p	COL4A3BP	1	1	1	3
hsa-miR-4731-5p	SLC35F6	1	1	1	3
hsa-miR-889-5p	ORC4	1	1	1	3
hsa-miR-3148	NXT2	1	1	1	3
hsa-miR-3688-3p	TULP4	1	1	1	3
hsa-miR-4468	FBXL20	1	1	1	3
hsa-miR-6830-5p	G3BP1	1	1	1	3
hsa-miR-4468	MAPRE1	1	1	1	3
hsa-miR-3688-3p	SLC6A8	1	1	1	3
hsa-miR-4291	HIGD1A	1	1	1	3
hsa-miR-6885-3p	UBE2H	1	1	1	3
hsa-miR-922	LRRFIP2	1	1	1	3
hsa-miR-129-5p	ACSL4	1	1	1	3
hsa-miR-6505-5p	REV3L	1	1	1	3
hsa-miR-4778-3p	BDP1	1	1	1	3
hsa-miR-6885-3p	SOX4	1	1	1	3
hsa-miR-5089-5p	TRIM72	1	1	1	3
hsa-miR-4276	YWHAE	1	1	1	3
hsa-miR-224-5p	NCOA6	1	1	1	3
hsa-miR-922	AP4E1	1	1	1	3
hsa-miR-3148	DYNC1LI2	1	1	1	3
hsa-miR-3148	AMER1	1	1	1	3
hsa-miR-4328	RRM2	1	1	1	3

hsa-miR-3148	RNF44	1	1	1	3
hsa-miR-3148	ZFP36L1	1	1	1	3
hsa-miR-3148	SET	1	1	1	3
hsa-miR-6875-3p	PTPN11	1	1	1	3
hsa-miR-1207-3p	PPP1R16B	1	1	1	3
hsa-miR-4267	CORO2A	1	1	1	3
hsa-miR-4328	ESRP2	1	1	1	3
hsa-miR-3148	H3F3A	1	1	1	3
hsa-miR-4496	GRPEL2	1	1	1	3
hsa-miR-4668-3p	EXOC6	1	1	1	3
hsa-miR-223-3p	MEF2C	1	1	1	3
hsa-miR-223-3p	FOXO1	1	1	1	3
hsa-miR-3148	CD2AP	1	1	1	3
hsa-miR-1910-5p	CLIC4	1	1	1	3
hsa-miR-129-5p	CNTLN	1	1	1	3
hsa-miR-4694-3p	REV3L	1	1	1	3
hsa-miR-6885-3p	MAP3K3	1	1	1	3
hsa-miR-6885-3p	PCDH19	1	1	1	3
hsa-miR-6124	MAFK	1	1	1	3
hsa-miR-3148	MED30	1	1	1	3
hsa-miR-5089-5p	CCDC125	1	1	1	3
hsa-miR-6124	DNAJB9	1	1	1	3
hsa-miR-4694-3p	LCTL	1	1	1	3
hsa-miR-4668-3p	MT2A	1	1	1	3
hsa-miR-5589-5p	SLC35F6	1	1	1	3
hsa-miR-4694-3p	FRK	1	1	1	3
hsa-miR-3148	ATP6V1G1	1	1	1	3
hsa-miR-223-3p	PHF19	1	1	1	3

hsa-miR-3148	PALM2	1	1	1	3
hsa-miR-129-5p	HBS1L	1	1	1	3
hsa-miR-6875-3p	SUCLG2	1	1	1	3
hsa-miR-4267	PPP1R37	1	1	1	3
hsa-miR-4668-3p	CEP85L	1	1	1	3
hsa-miR-5197-5p	STRN	1	1	1	3
hsa-miR-922	GABPA	1	1	1	3
hsa-miR-5197-5p	PNISR	1	1	1	3
hsa-miR-3148	PTP4A1	1	1	1	3
hsa-miR-129-5p	SORBS2	1	1	1	3
hsa-miR-4668-3p	ANKRD40	1	1	1	3
hsa-miR-4496	RAP1B	1	1	1	3
hsa-miR-6875-3p	HAS2	1	1	1	3
hsa-miR-129-5p	AKAP10	1	1	1	3
hsa-miR-6885-3p	UBE4B	1	1	1	3
hsa-miR-4687-3p	UNC80	1	1	1	3
hsa-miR-3148	PAFAH1B2	1	1	1	3
hsa-miR-224-5p	EFNA3	1	1	1	3
hsa-miR-4328	HMGB2	1	1	1	3
hsa-miR-4668-3p	ZFHX3	1	1	1	3
hsa-miR-6124	TUBA1B	1	1	1	3
hsa-miR-129-5p	USP6NL	1	1	1	3
hsa-miR-6875-3p	SMG1	1	1	1	3
hsa-miR-4328	ZFYVE9	1	1	1	3
hsa-miR-1197	WIZ	1	1	1	3
hsa-miR-3200-5p	ZNF45	1	1	1	3
hsa-miR-223-3p	CYB5A	1	1	1	3
hsa-miR-4668-3p	SIX4	1	1	1	3

hsa-miR-4694-3p	GPATCH11	1	1	1	3
hsa-miR-4267	SEMA7A	1	1	1	3
hsa-miR-4694-3p	SLC6A8	1	1	1	3
hsa-miR-5589-5p	GEMIN8	1	1	1	3
hsa-miR-4267	NGDN	1	1	1	3
hsa-miR-129-5p	APC	1	1	1	3
hsa-miR-5197-5p	PHF6	1	1	1	3
hsa-miR-6830-5p	HMBOX1	1	1	1	3
hsa-miR-4496	GLO1	1	1	1	3
hsa-miR-6885-3p	ZDHHC21	1	1	1	3
hsa-miR-3148	DLC1	1	1	1	3
hsa-miR-3148	CD55	1	1	1	3
hsa-miR-6885-3p	TP53INP1	1	1	1	3
hsa-miR-4731-5p	ILK	1	1	1	3
hsa-miR-578	SLC38A1	1	1	1	3
hsa-miR-4267	C15orf52	1	1	1	3
hsa-miR-4267	SLC6A17	1	1	1	3
hsa-miR-223-3p	PAX6	1	1	1	3
hsa-miR-4267	SNX27	1	1	1	3
hsa-miR-129-5p	DIS3	1	1	1	3
hsa-miR-4274	CLIP4	1	1	1	3
hsa-miR-4328	GNAI2	1	1	1	3
hsa-miR-223-3p	ECT2	1	1	1	3
hsa-miR-129-5p	UNC5D	1	1	1	3
hsa-miR-6124	MTA3	1	1	1	3
hsa-miR-4697-3p	SPG20	1	1	1	3
hsa-miR-4731-5p	GIGYF1	1	1	1	3
hsa-miR-129-5p	KLHL5	1	1	1	3

hsa-miR-198	PBX1	1	1	1	3
hsa-miR-4274	UBE2D2	1	1	1	3
hsa-miR-3148	TMEM164	1	1	1	3
hsa-miR-4519	PATL1	1	1	1	3
hsa-miR-4276	SESN3	1	1	1	3
hsa-miR-3148	USP45	1	1	1	3
hsa-miR-4291	PAFAH1B2	1	1	1	3
hsa-miR-198	MRPS27	1	1	1	3
hsa-miR-3148	CPEB3	1	1	1	3
hsa-miR-647	CYR61	1	1	1	3
hsa-miR-4668-3p	ZNF562	1	1	1	3
hsa-miR-4668-3p	PIK3C2B	1	1	1	3
hsa-miR-597-5p	RBM41	1	1	1	3
hsa-miR-3688-3p	CCDC6	1	1	1	3
hsa-miR-6505-5p	KLHL28	1	1	1	3
hsa-miR-129-5p	SBNO1	1	1	1	3
hsa-miR-3148	PPP1CB	1	1	1	3
hsa-miR-5197-5p	SNRNP27	1	1	1	3
hsa-miR-3148	ZNF236	1	1	1	3
hsa-miR-5589-5p	INMT	1	1	1	3
hsa-miR-6124	ZNF180	1	1	1	3
hsa-miR-6505-5p	KAT6A	1	1	1	3
hsa-miR-1197	GALNT10	1	1	1	3
hsa-miR-129-5p	DNAJC15	1	1	1	3
hsa-miR-7974	CABP4	1	1	1	3
hsa-miR-198	DIDO1	1	1	1	3
hsa-miR-224-5p	ZNF207	1	1	1	3
hsa-miR-4328	ACTB	1	1	1	3

hsa-miR-4496	FNBP1L	1	1	1	3
hsa-miR-647	SLC1A7	1	1	1	3
hsa-miR-5589-5p	ZBED3	1	1	1	3
hsa-miR-3148	TRAPPC8	1	1	1	3
hsa-miR-5197-5p	ZNF281	1	1	1	3
hsa-miR-561-5p	F2RL2	1	1	1	3
hsa-miR-5190	ZFP36L1	1	1	1	3
hsa-miR-4328	PTEN	1	1	1	3
hsa-miR-922	AVL9	1	1	1	3
hsa-miR-1207-3p	ZFYVE27	1	1	1	3
hsa-miR-223-3p	RRAS2	1	1	1	3
hsa-miR-4668-3p	MT1E	1	1	1	3
hsa-miR-8080	AK2	1	1	1	3
hsa-miR-6842-3p	GJA5	1	1	1	3
hsa-miR-6885-3p	LIN28B	1	1	1	3
hsa-miR-4731-5p	RNF126	1	1	1	3
hsa-miR-129-5p	ZNF25	1	1	1	3
hsa-miR-129-5p	BMPR2	1	1	1	3
hsa-miR-922	UBE3C	1	1	1	3
hsa-miR-4267	ZBTB8A	1	1	1	3
hsa-miR-4468	POC1A	1	1	1	3
hsa-miR-4468	TNRC6A	1	1	1	3
hsa-miR-7974	MAP7D1	1	1	1	3
hsa-miR-1207-3p	URM1	1	1	1	3
hsa-miR-224-5p	FEM1B	1	1	1	3
hsa-miR-3148	NCL	1	1	1	3
hsa-miR-647	SECISBP2L	1	1	1	3
hsa-miR-5190	DCAF7	1	1	1	3

hsa-miR-4468	FAM46A	1	1	1	3
hsa-miR-6885-3p	TP63	1	1	1	3
hsa-miR-5197-5p	CREBRF	1	1	1	3
hsa-miR-224-5p	SMAD4	1	1	1	3
hsa-miR-3148	UBXN7	1	1	1	3
hsa-miR-4276	NAA15	1	1	1	3
hsa-miR-4519	STK4	1	1	1	3
hsa-miR-3192-5p	ZBTB38	1	1	1	3
hsa-miR-223-3p	TWF1	1	1	1	3
hsa-miR-6124	GID4	1	1	1	3
hsa-miR-922	DUSP14	1	1	1	3
hsa-miR-6875-3p	TMEM74B	1	1	1	3
hsa-miR-223-3p	FBXW7	1	1	1	3
hsa-miR-129-5p	SOX4	1	1	1	3
hsa-miR-3148	PNISR	1	1	1	3
hsa-miR-5089-5p	COX19	1	1	1	3
hsa-miR-3148	ZYG11B	1	1	1	3
hsa-miR-4713-3p	CD4	1	1	1	3
hsa-miR-198	PLXDC2	1	1	1	3
hsa-miR-129-5p	KAT6B	1	1	1	3
hsa-miR-922	PHC3	1	1	1	3
hsa-miR-3688-3p	SKIL	1	1	1	3
hsa-miR-4276	C5orf30	1	1	1	3
hsa-miR-5197-5p	SUCO	1	1	1	3
hsa-miR-6830-5p	PTPRB	1	1	1	3
hsa-miR-129-5p	RBMXL1	1	1	1	3
hsa-miR-224-5p	NUFIP2	1	1	1	3
hsa-miR-6505-5p	ZNF148	1	1	1	3

hsa-miR-3192-5p	CXCL16	1	1	1	3
hsa-miR-4519	CHIC1	1	1	1	3
hsa-miR-4328	DUSP6	1	1	1	3
hsa-miR-129-5p	CBX4	1	1	1	3
hsa-miR-223-3p	SMARCD1	1	1	1	3
hsa-miR-4694-3p	PPP2CA	1	1	1	3
hsa-miR-5190	NAA50	1	1	1	3
hsa-miR-6830-5p	IGDCC3	1	1	1	3
hsa-miR-6885-3p	CYP1B1	1	1	1	3
hsa-miR-5089-5p	NT5C2	1	1	1	3
hsa-miR-4519	GNS	1	1	1	3
hsa-miR-6885-3p	FAM210A	1	1	1	3
hsa-miR-6505-5p	SUZ12	1	1	1	3
hsa-miR-3688-3p	ATXN1	1	1	1	3
hsa-miR-3148	APPL1	1	1	1	3
hsa-miR-4731-5p	USP15	1	1	1	3
hsa-miR-4267	SLC12A7	1	1	1	3
hsa-miR-3148	ATRAID	1	1	1	3
hsa-miR-4731-5p	CALCOCO2	1	1	1	3
hsa-miR-3148	ZBTB10	1	1	1	3
hsa-miR-4276	SPG20	1	1	1	3
hsa-miR-4668-3p	RPS24	1	1	1	3
hsa-miR-4731-5p	ARL8A	1	1	1	3
hsa-miR-6885-3p	CAPZA1	1	1	1	3
hsa-miR-4694-3p	FAM160B1	1	1	1	3
hsa-miR-6816-3p	SPRY1	1	1	1	3
hsa-miR-6728-5p	DCAF8	1	1	1	3
hsa-miR-5089-5p	C15orf40	1	1	1	3

hsa-miR-3148	FAM160B1	1	1	1	3
hsa-miR-4697-3p	HHLA2	1	1	1	3
hsa-miR-3148	PCNT	1	1	1	3
hsa-miR-6816-3p	H3F3B	1	1	1	3
hsa-miR-3148	PTP4A2	1	1	1	3
hsa-miR-3148	KLHL28	1	1	1	3
hsa-miR-6842-3p	PRKCA	1	1	1	3
hsa-miR-4267	COX15	1	1	1	3
hsa-miR-5089-5p	HIP1	1	1	1	3
hsa-miR-4731-5p	N4BP2L2	1	1	1	3
hsa-miR-7974	SMG1	1	1	1	3
hsa-miR-4328	RDH10	1	1	1	3
hsa-miR-129-5p	RBM47	1	1	1	3
hsa-miR-4496	SFT2D2	1	1	1	3
hsa-miR-4496	HMGXB4	1	1	1	3
hsa-miR-6875-3p	SDHD	1	1	1	3
hsa-miR-223-3p	FAM60A	1	1	1	3
hsa-miR-6885-3p	CADM1	1	1	1	3
hsa-miR-5197-5p	KDM2B	1	1	1	3
hsa-miR-223-3p	NFIA	1	1	1	3
hsa-miR-6124	IGF1R	1	1	1	3
hsa-miR-578	NYAP2	1	1	1	3
hsa-miR-4468	ST3GAL5	1	1	1	3
hsa-miR-224-5p	TNRC6A	1	1	1	3
hsa-miR-647	IL5	1	1	1	3
hsa-miR-5589-5p	BCL2L11	1	1	1	3
hsa-miR-6124	SP1	1	1	1	3
hsa-miR-922	HOXD13	1	1	1	3

hsa-miR-129-5p	CALM1	1	1	1	3
hsa-miR-7974	KCNIP3	1	1	1	3
hsa-miR-4328	RAD23B	1	1	1	3
hsa-miR-4291	ENTPD1	1	1	1	3
hsa-miR-4731-5p	CEP104	1	1	1	3
hsa-miR-4778-3p	TARDBP	1	1	1	3
hsa-miR-4291	PPP1R10	1	1	1	3
hsa-miR-5197-5p	GABRB2	1	1	1	3
hsa-miR-6505-5p	SKI	1	1	1	3
hsa-miR-889-5p	L2HGDH	1	1	1	3
hsa-miR-4731-5p	PNMAL2	1	1	1	3
hsa-miR-4790-3p	NDUFA12	1	1	1	3
hsa-miR-3148	LIMCH1	1	1	1	3
hsa-miR-922	UBE2H	1	1	1	3
hsa-miR-4276	DNAJC8	1	1	1	3
hsa-miR-3688-3p	PDIA5	1	1	1	3
hsa-miR-3192-5p	SLC35F6	1	1	1	3
hsa-miR-129-5p	PAPD5	1	1	1	3
hsa-miR-4267	KCNJ13	1	1	1	3
hsa-miR-922	GOLGA7	1	1	1	3
hsa-miR-7974	ZBTB4	1	1	1	3
hsa-miR-6124	KIF5B	1	1	1	3
hsa-miR-224-5p	TRIB1	1	1	1	3
hsa-miR-3148	SLC6A8	1	1	1	3
hsa-miR-6830-5p	SESN3	1	1	1	3
hsa-miR-922	LAMC1	1	1	1	3
hsa-miR-4694-3p	PLEKHF2	1	1	1	3
hsa-miR-4668-3p	MKX	1	1	1	3

hsa-miR-3148	CITED2	1	1	1	3
hsa-miR-4276	DENND2C	1	1	1	3
hsa-miR-5589-5p	ODF2L	1	1	1	3
hsa-miR-4291	C17orf49	1	1	1	3
hsa-miR-6124	KDM5B	1	1	1	3
hsa-miR-922	PCBP1	1	1	1	3
hsa-miR-129-5p	ADD3	1	1	1	3
hsa-miR-5089-5p	CPT1A	1	1	1	3
hsa-miR-4731-5p	MOB3A	1	1	1	3
hsa-miR-129-5p	RNF165	1	1	1	3
hsa-miR-4668-3p	ZDHHC21	1	1	1	3
hsa-miR-3148	PPIL4	1	1	1	3
hsa-miR-129-5p	STON2	1	1	1	3
hsa-miR-4328	PKP1	1	1	1	3
hsa-miR-224-5p	PHLPP1	1	1	1	3
hsa-miR-4328	EDN1	1	1	1	3
hsa-miR-4267	STRIP2	1	1	1	3
hsa-miR-4291	CDK6	1	1	1	3
hsa-miR-224-5p	MYLIP	1	1	1	3
hsa-miR-4697-3p	SESN3	1	1	1	3
hsa-miR-922	CMTM4	1	1	1	3
hsa-miR-5197-5p	C19orf12	1	1	1	3
hsa-miR-3138	SDHD	1	1	1	3
hsa-miR-6505-5p	YWHAQ	1	1	1	3
hsa-miR-3688-3p	LRP12	1	1	1	3
hsa-miR-224-5p	GORAB	1	1	1	3
hsa-miR-5589-5p	PODXL	1	1	1	3
hsa-miR-4291	CPEB4	1	1	1	3

hsa-miR-4496	RNF11	1	1	1	3
hsa-miR-3688-3p	TUBA1B	1	1	1	3
hsa-miR-4790-3p	FOXC1	1	1	1	3
hsa-miR-4731-5p	NCOA3	1	1	1	3
hsa-miR-3148	UNC119B	1	1	1	3
hsa-miR-3148	CREBRF	1	1	1	3
hsa-miR-6728-5p	IRF2	1	1	1	3
hsa-miR-5089-5p	ZNF563	1	1	1	3
hsa-miR-5089-5p	CXorf21	1	1	1	3
hsa-miR-1207-3p	ACVR1	1	1	1	3
hsa-miR-224-5p	USP6NL	1	1	1	3
hsa-miR-7974	SDC4	1	1	1	3
hsa-miR-6842-3p	MKI67	1	1	1	3
hsa-miR-8080	SLC39A9	1	1	1	3
hsa-miR-5197-5p	SHOC2	1	1	1	3
hsa-miR-4519	STC2	1	1	1	3
hsa-miR-3148	TNRC6A	1	1	1	3
hsa-miR-4267	ZFYVE27	1	1	1	3
hsa-miR-561-5p	ARID1A	1	1	1	3
hsa-miR-223-3p	LMO2	1	1	1	3
hsa-miR-224-5p	KBTBD8	1	1	1	3
hsa-miR-223-3p	2-Sep	1	1	1	3
hsa-miR-4328	CTBP2	1	1	1	3
hsa-miR-6885-3p	G3BP1	1	1	1	3
hsa-miR-4694-3p	TLR4	1	1	1	3
hsa-miR-4328	SET	1	1	1	3
hsa-miR-3688-3p	MAP1B	1	1	1	3
hsa-miR-4276	UBN2	1	1	1	3

hsa-miR-922	CCNY	1	1	1	3
hsa-miR-3200-5p	PAPD7	1	1	1	3
hsa-miR-3148	AMOTL1	1	1	1	3
hsa-miR-3148	CYB5B	1	1	1	3
hsa-miR-4668-3p	H3F3B	1	1	1	3
hsa-miR-5190	SYK	1	1	1	3
hsa-miR-6842-3p	PTEN	1	1	1	3
hsa-miR-4694-3p	C21orf91	1	1	1	3
hsa-miR-922	C10orf76	1	1	1	3
hsa-miR-129-5p	DUSP10	1	1	1	3
hsa-miR-5589-5p	ANKS4B	1	1	1	3
hsa-miR-578	VCAN	1	1	1	3
hsa-miR-3200-5p	DDHD2	1	1	1	3
hsa-miR-3192-5p	GLUL	1	1	1	3
hsa-miR-3148	TM9SF3	1	1	1	3
hsa-miR-4687-3p	ZBTB39	1	1	1	3
hsa-miR-4276	AAR2	1	1	1	3
hsa-miR-129-5p	RSBN1	1	1	1	3
hsa-miR-4694-3p	CCND1	1	1	1	3
hsa-miR-4276	RBMS2	1	1	1	3
hsa-miR-129-5p	LIMS1	1	1	1	3
hsa-miR-4496	CELF1	1	1	1	3
hsa-miR-4731-5p	DCAF16	1	1	1	3
hsa-miR-6885-3p	SCN9A	1	1	1	3
hsa-miR-3192-5p	FAM210A	1	1	1	3
hsa-miR-4328	DYRK2	1	1	1	3
hsa-miR-4468	RBPJ	1	1	1	3
hsa-miR-4291	NPTN	1	1	1	3

hsa-miR-4276	LSM14A	1	1	1	3
hsa-miR-223-3p	IL6ST	1	1	1	3
hsa-miR-3148	YTHDF1	1	1	1	3
hsa-miR-3192-5p	IQSEC3	1	1	1	3
hsa-miR-4276	SOX4	1	1	1	3
hsa-miR-6842-3p	TMEM184A	1	1	1	3
hsa-miR-6875-3p	GYS2	1	1	1	3
hsa-miR-5197-5p	ZFH3	1	1	1	3
hsa-miR-3148	STMN1	1	1	1	3
hsa-miR-4328	TMEM64	1	1	1	3
hsa-miR-3192-5p	AJAP1	1	1	1	3
hsa-miR-3148	TBL1XR1	1	1	1	3
hsa-miR-4496	FKBP1A	1	1	1	3
hsa-miR-6875-3p	CCDC93	1	1	1	3
hsa-miR-6124	CREBRF	1	1	1	3
hsa-miR-224-5p	SLC12A5	1	1	1	3
hsa-miR-3148	CDC27	1	1	1	3
hsa-miR-4668-3p	CCND2	1	1	1	3
hsa-miR-3192-5p	NACC1	1	1	1	3
hsa-miR-4668-3p	SRSF1	1	1	1	3
hsa-miR-3192-5p	TREM1	1	1	1	3
hsa-miR-6124	APCDD1	1	1	1	3
hsa-miR-4700-3p	TXNIP	1	1	1	3
hsa-miR-198	NNAT	1	1	1	3
hsa-miR-4328	SGMS1	1	1	1	3
hsa-miR-224-5p	CSTF2	1	1	1	3
hsa-miR-6875-3p	MYLIP	1	1	1	3
hsa-miR-3148	ADAMTS5	1	1	1	3

hsa-miR-4291	ZNF641	1	1	1	3
hsa-miR-6875-3p	PPM1H	1	1	1	3
hsa-miR-224-5p	CLDN12	1	1	1	3
hsa-miR-224-5p	EYA4	1	1	1	3
hsa-miR-4328	ERBB3	1	1	1	3
hsa-miR-4668-3p	SZRD1	1	1	1	3
hsa-miR-4267	RANGAP1	1	1	1	3
hsa-miR-6875-3p	KCTD12	1	1	1	3
hsa-miR-4731-5p	ZFAND3	1	1	1	3
hsa-miR-6875-3p	MYOCD	1	1	1	3
hsa-miR-922	ZNF417	1	1	1	3
hsa-miR-3688-3p	G3BP2	1	1	1	3
hsa-miR-6124	CELF1	1	1	1	3
hsa-miR-4731-5p	SLC30A2	1	1	1	3
hsa-miR-6830-5p	HOXA5	1	1	1	3
hsa-miR-3192-5p	MOB3A	1	1	1	3
hsa-miR-4694-3p	CYB5B	1	1	1	3
hsa-miR-4668-3p	KIAA1456	1	1	1	3
hsa-miR-922	ZBTB44	1	1	1	3
hsa-miR-4328	VIM	1	1	1	3
hsa-miR-922	SBNO1	1	1	1	3
hsa-miR-4328	FOXO3	1	1	1	3
hsa-miR-5197-5p	GSPT1	1	1	1	3
hsa-miR-561-5p	HMBOX1	1	1	1	3
hsa-miR-4291	PHLPP2	1	1	1	3
hsa-miR-3148	TET3	1	1	1	3
hsa-miR-6875-3p	ZNF22	1	1	1	3
hsa-miR-6885-3p	BBX	1	1	1	3

hsa-miR-6885-3p	CXorf21	1	1	1	3
hsa-miR-4694-3p	FOPNL	1	1	1	3
hsa-miR-3148	OCLN	1	1	1	3
hsa-miR-129-5p	GABBR2	1	1	1	3
hsa-miR-224-5p	SLC46A3	1	1	1	3
hsa-miR-5089-5p	LCTL	1	1	1	3
hsa-miR-4694-3p	FXR1	1	1	1	3
hsa-miR-4291	ZBTB33	1	1	1	3
hsa-miR-6728-5p	NCL	1	1	1	3
hsa-miR-4267	TCEANC2	1	1	1	3
hsa-miR-5089-5p	CACYBP	1	1	1	3
hsa-miR-3688-3p	PLEKHF2	1	1	1	3
hsa-miR-3148	SSU72	1	1	1	3
hsa-miR-4496	UNC5C	1	1	1	3
hsa-miR-4274	QSER1	1	1	1	3
hsa-miR-129-5p	CLOCK	1	1	1	3
hsa-miR-3688-3p	KPNA6	1	1	1	3
hsa-miR-223-3p	SP3	1	1	1	3
hsa-miR-7974	NUFIP2	1	1	1	3
hsa-miR-129-5p	TERF2	1	1	1	3
hsa-miR-4668-3p	NXPE3	1	1	1	3
hsa-miR-129-5p	SLBP	1	1	1	3
hsa-miR-4276	RCAN1	1	1	1	3
hsa-miR-4700-3p	KLHDC10	1	1	1	3
hsa-miR-1207-3p	UTP18	1	1	1	3
hsa-miR-578	EPHB1	1	1	1	3
hsa-miR-3148	KLHL12	1	1	1	3
hsa-miR-3148	SLC16A1	1	1	1	3

hsa-miR-4519	ZNF449	1	1	1	3
hsa-miR-4328	TMED5	1	1	1	3
hsa-miR-3148	CTNND1	1	1	1	3
hsa-miR-4328	PPP1R3B	1	1	1	3
hsa-miR-4694-3p	SCOC	1	1	1	3
hsa-miR-3148	UBE2D1	1	1	1	3
hsa-miR-129-5p	GALNT1	1	1	1	3
hsa-miR-6885-3p	LPGAT1	1	1	1	3
hsa-miR-5089-5p	CHST6	1	1	1	3
hsa-miR-3688-3p	TAGLN2	1	1	1	3
hsa-miR-4291	ARL8B	1	1	1	3
hsa-miR-578	FIBIN	1	1	1	3
hsa-miR-4694-3p	MBNL1	1	1	1	3
hsa-miR-3148	TNFAIP1	1	1	1	3
hsa-miR-4496	YY1	1	1	1	3
hsa-miR-3148	CALR	1	1	1	3
hsa-miR-6885-3p	PGRMC1	1	1	1	3
hsa-miR-4328	ZNRF2	1	1	1	3
hsa-miR-4668-3p	OSTF1	1	1	1	3
hsa-miR-1910-5p	GSK3B	1	1	1	3
hsa-miR-4291	CALU	1	1	1	3
hsa-miR-4267	MRPS27	1	1	1	3
hsa-miR-922	GALNT1	1	1	1	3
hsa-miR-4697-3p	GRPEL2	1	1	1	3

miRNA/miR, microRNA; circ, circular RNA; hsa, Homo sapiens.