

Table SII. Predictions for miRNA response elements of the hsa_circ_0000520, hsa_circ_0006220, hsa_circ_0000977 and hsa_circ_0043278 using the cancer-specific circRNA database.

circRNA ID	miRNA	MSA start	MSA end	Site type
hsa_circ_0000520	miR-1199-3p	82	87	6mer
hsa_circ_0000520	miR-1199-5p/6751-3p	61	66	6mer
hsa_circ_0000520	miR-1227-5p	31	37	7mer-m8
hsa_circ_0000520	miR-1238-5p/4758-5p	19	24	6mer
hsa_circ_0000520	miR-1249-5p/6797-5p	50	55	6mer
hsa_circ_0000520	miR-125-5p/4319	62	69	8mer-1a
hsa_circ_0000520	miR-127-5p	43	49	7mer-m8
hsa_circ_0000520	miR-128-5p	31	37	7mer-1a
hsa_circ_0000520	miR-1291/6775-3p	80	85	6mer
hsa_circ_0000520	miR-1296-3p	33	39	7mer-m8
hsa_circ_0000520	miR-1296-5p	92	98	7mer-m8
hsa_circ_0000520	miR-146b-3p	94	99	6mer
hsa_circ_0000520	miR-149-3p/4728-5p/6785-5p/6883-5p	50	56	7mer-m8
hsa_circ_0000520	miR-186-3p	78	83	6mer
hsa_circ_0000520	miR-18b-3p	78	84	7mer-m8
hsa_circ_0000520	miR-1909-5p	18	24	7mer-1a
hsa_circ_0000520	miR-1914-3p/5194/6738-5p	49	54	6mer
hsa_circ_0000520	miR-194-3p	34	41	8mer-1a
hsa_circ_0000520	miR-27b-5p	59	65	7mer-1a
hsa_circ_0000520	miR-296-5p	92	98	7mer-1a
hsa_circ_0000520	miR-3151-5p	32	38	7mer-m8
hsa_circ_0000520	miR-3158-3p	71	76	6mer
hsa_circ_0000520	miR-3160-3p	22	28	7mer-m8

hsa_circ_0000520	miR-3175	52	57	6mer
hsa_circ_0000520	miR-3197	85	90	6mer
hsa_circ_0000520	miR-3918	72	77	6mer
hsa_circ_0000520	miR-3928-5p/6806-3p	43	49	7mer-m8
hsa_circ_0000520	miR-423-5p/3184-5p	49	54	6mer
hsa_circ_0000520	miR-4257	87	92	6mer
hsa_circ_0000520	miR-4271/4725-3p/6780-5p	46	52	7mer-m8
hsa_circ_0000520	miR-4276	36	41	6mer
hsa_circ_0000520	miR-4287/4685-3p	65	71	7mer-1a
hsa_circ_0000520	miR-4324	62	67	6mer
hsa_circ_0000520	miR-4437	70	75	6mer
hsa_circ_0000520	miR-4446-3p	71	76	6mer
hsa_circ_0000520	miR-4447/4472	33	38	6mer
hsa_circ_0000520	miR-4467	83	88	6mer
hsa_circ_0000520	miR-4469	65	71	7mer-1a
hsa_circ_0000520	miR-4487	23	28	6mer
hsa_circ_0000520	miR-4512	92	98	7mer-1a
hsa_circ_0000520	miR-4640-5p/4726-5p	30	35	6mer
hsa_circ_0000520	miR-4640-5p/4726-5p	90	96	7mer-m8
hsa_circ_0000520	miR-4658/6790-5p	19	24	6mer
hsa_circ_0000520	miR-4663	21	26	6mer
hsa_circ_0000520	miR-4682	20	25	6mer
hsa_circ_0000520	miR-4713-5p	66	71	6mer
hsa_circ_0000520	miR-4732-3p	63	69	7mer-1a
hsa_circ_0000520	miR-4747-5p/5196-5p	46	51	6mer
hsa_circ_0000520	miR-491-5p	33	38	6mer
hsa_circ_0000520	miR-5088-5p	70	76	7mer-m8
hsa_circ_0000520	miR-5094	36	42	7mer-m8
hsa_circ_0000520	miR-542-5p	53	60	8mer-1a

hsa_circ_0000520	miR-544b	62	67	6mer
hsa_circ_0000520	miR-558	23	28	6mer
hsa_circ_0000520	miR-5693	35	41	7mer-1a
hsa_circ_0000520	miR-6075	81	86	6mer
hsa_circ_0000520	miR-6087	84	90	7mer-m8
hsa_circ_0000520	miR-6508-3p	30	35	6mer
hsa_circ_0000520	miR-6508-3p	91	96	6mer
hsa_circ_0000520	miR-670-5p	63	69	7mer-m8
hsa_circ_0000520	miR-671-5p	45	50	6mer
hsa_circ_0000520	miR-6727-5p	54	60	7mer-1a
hsa_circ_0000520	miR-6742-5p	33	38	6mer
hsa_circ_0000520	miR-6762-5p/6845-5p	30	37	8mer-1a
hsa_circ_0000520	miR-6777-5p/6889-5p	52	59	8mer-1a
hsa_circ_0000520	miR-6783-5p	47	53	7mer-m8
hsa_circ_0000520	miR-6796-3p	43	48	6mer
hsa_circ_0000520	miR-6799-5p	51	56	6mer
hsa_circ_0000520	miR-6822-3p	69	74	6mer
hsa_circ_0000520	miR-6825-5p	51	57	7mer-m8
hsa_circ_0000520	miR-6828-5p	45	50	6mer
hsa_circ_0000520	miR-6845-3p	67	72	6mer
hsa_circ_0000520	miR-6847-3p	41	46	6mer
hsa_circ_0000520	miR-6847-5p	87	92	6mer
hsa_circ_0000520	miR-6851-3p	80	85	6mer
hsa_circ_0000520	miR-6854-5p	42	47	6mer
hsa_circ_0000520	miR-6867-3p	65	71	7mer-m8
hsa_circ_0000520	miR-6870-3p	40	45	6mer
hsa_circ_0000520	miR-6895-5p	91	98	8mer-1a
hsa_circ_0000520	miR-7106-5p	51	56	6mer
hsa_circ_0000520	miR-7113-3p	64	71	8mer-1a

hsa_circ_0000520	miR-7160-3p	92	98	7mer-1a
hsa_circ_0000520	miR-7160-5p	21	26	6mer
hsa_circ_0000520	miR-760	69	74	6mer
hsa_circ_0000520	miR-8077	20	26	7mer-m8
hsa_circ_0000520	miR-939-5p/1343-5p	52	57	6mer
hsa_circ_0000520	miR-99-3p	43	48	6mer
hsa_circ_0006220	miR-1-3p/206/613	37	43	7mer-1a
hsa_circ_0006220	miR-1202/3972	49	54	6mer
hsa_circ_0006220	miR-129-5p	17	23	7mer-m8
hsa_circ_0006220	miR-133-3p.2	82	87	6mer
hsa_circ_0006220	miR-135-5p	34	39	6mer
hsa_circ_0006220	miR-1825	47	52	6mer
hsa_circ_0006220	miR-187-5p	58	65	8mer-1a
hsa_circ_0006220	miR-199-5p	47	52	6mer
hsa_circ_0006220	miR-203-3p.1	42	48	7mer-m8
hsa_circ_0006220	miR-212-5p	84	90	7mer-1a
hsa_circ_0006220	miR-214-3p/761/3619-5p	24	30	7mer-1a
hsa_circ_0006220	miR-216-3p	93	99	7mer-1a
hsa_circ_0006220	miR-221-3p/222-3p	57	63	7mer-m8
hsa_circ_0006220	miR-224-3p/522-3p	41	46	6mer
hsa_circ_0006220	miR-3138	46	51	6mer
hsa_circ_0006220	miR-3189-3p	84	90	7mer-1a
hsa_circ_0006220	miR-3193	52	57	6mer
hsa_circ_0006220	miR-342-3p	94	100	7mer-m8
hsa_circ_0006220	miR-3688-3p	39	44	6mer
hsa_circ_0006220	miR-4274	23	28	6mer
hsa_circ_0006220	miR-4291	24	30	7mer-m8
hsa_circ_0006220	miR-431-5p	79	84	6mer
hsa_circ_0006220	miR-4328	20	26	7mer-m8

hsa_circ_0006220	miR-4519	23	28	6mer
hsa_circ_0006220	miR-4687-3p	32	38	7mer-1a
hsa_circ_0006220	miR-4691-5p/6792-3p	88	93	6mer
hsa_circ_0006220	miR-4694-3p	40	46	7mer-m8
hsa_circ_0006220	miR-4722-3p/6727-3p	50	57	8mer-1a
hsa_circ_0006220	miR-4769-3p/6817-5p	50	55	6mer
hsa_circ_0006220	miR-4790-3p	36	41	6mer
hsa_circ_0006220	miR-4793-5p	53	59	7mer-m8
hsa_circ_0006220	miR-483-3p.1	89	95	7mer-m8
hsa_circ_0006220	miR-483-3p.2	90	96	7mer-m8
hsa_circ_0006220	miR-5006-5p	49	54	6mer
hsa_circ_0006220	miR-502-5p	85	90	6mer
hsa_circ_0006220	miR-509-3p	63	69	7mer-1a
hsa_circ_0006220	miR-5190	46	51	6mer
hsa_circ_0006220	miR-5193	87	93	7mer-1a
hsa_circ_0006220	miR-5196-3p	54	59	6mer
hsa_circ_0006220	miR-5197-5p	35	40	6mer
hsa_circ_0006220	miR-548v	58	63	6mer
hsa_circ_0006220	miR-5589-3p	71	77	7mer-1a
hsa_circ_0006220	miR-592	28	34	7mer-m8
hsa_circ_0006220	miR-597-5p	28	34	7mer-1a
hsa_circ_0006220	miR-647	33	38	6mer
hsa_circ_0006220	miR-6505-5p	38	43	6mer
hsa_circ_0006220	miR-660-3p	87	93	7mer-1a
hsa_circ_0006220	miR-664-5p	33	38	6mer
hsa_circ_0006220	miR-6747-3p	51	57	7mer-1a
hsa_circ_0006220	miR-6749-3p	88	93	6mer
hsa_circ_0006220	miR-6842-3p	33	38	6mer
hsa_circ_0006220	miR-6843-3p/6848-3p	81	87	7mer-1a

hsa_circ_0006220	miR-6885-3p	15	22	8mer-1a
hsa_circ_0006220	miR-7974	31	38	8mer-1a
hsa_circ_0006220	miR-889-5p	33	39	7mer-m8
hsa_circ_0006220	miR-922	24	30	7mer-1a
hsa_circ_0000977	miR-103-5p	95	100	6mer
hsa_circ_0000977	miR-145-5p/5195-3p	49	56	8mer-1a
hsa_circ_0000977	miR-148-5p/6874-3p	46	52	7mer-m8
hsa_circ_0000977	miR-154-5p	32	38	7mer-1a
hsa_circ_0000977	miR-181-5p/4262	54	60	7mer-1a
hsa_circ_0000977	miR-192-3p	85	90	6mer
hsa_circ_0000977	miR-2467-5p	73	79	7mer-m8
hsa_circ_0000977	miR-3168	47	52	6mer
hsa_circ_0000977	miR-3180-5p	51	56	6mer
hsa_circ_0000977	miR-3182	94	99	6mer
hsa_circ_0000977	miR-361-3p	75	80	6mer
hsa_circ_0000977	miR-3926	86	91	6mer
hsa_circ_0000977	miR-3945	65	71	7mer-1a
hsa_circ_0000977	miR-4253/6862-5p	65	71	7mer-1a
hsa_circ_0000977	miR-4256	92	98	7mer-1a
hsa_circ_0000977	miR-4277	47	53	7mer-m8
hsa_circ_0000977	miR-4426/4647/4662	69	75	7mer-m8
hsa_circ_0000977	miR-4640-3p	76	81	6mer
hsa_circ_0000977	miR-4670-3p	41	47	7mer-1a
hsa_circ_0000977	miR-4762-3p	45	50	6mer
hsa_circ_0000977	miR-4762-3p	93	98	6mer
hsa_circ_0000977	miR-4773	21	27	7mer-1a
hsa_circ_0000977	miR-556-3p	58	63	6mer
hsa_circ_0000977	miR-5584-3p	47	52	6mer
hsa_circ_0000977	miR-5687	22	28	7mer-1a

hsa_circ_0000977	miR-573/3616-5p	42	47	6mer
hsa_circ_0000977	miR-584-3p	48	53	6mer
hsa_circ_0000977	miR-607	36	42	7mer-1a
hsa_circ_0000977	miR-624-3p	18	23	6mer
hsa_circ_0000977	miR-6504-3p	57	63	7mer-1a
hsa_circ_0000977	miR-6771-3p	77	83	7mer-m8
hsa_circ_0000977	miR-6793-3p	74	79	6mer
hsa_circ_0000977	miR-6814-5p	73	78	6mer
hsa_circ_0000977	miR-6816-3p	16	21	6mer
hsa_circ_0000977	miR-6830-5p	17	22	6mer
hsa_circ_0000977	miR-8080	16	21	6mer
hsa_circ_0000977	miR-935	49	55	7mer-1a
hsa_circ_0043278	miR-1-3p/206/613	37	43	7mer-1a
hsa_circ_0043278	miR-1197	66	71	6mer
hsa_circ_0043278	miR-1207-3p	77	83	7mer-m8
hsa_circ_0043278	miR-129-5p	17	23	7mer-m8
hsa_circ_0043278	miR-135-5p	34	39	6mer
hsa_circ_0043278	miR-1910-5p	83	88	6mer
hsa_circ_0043278	miR-198	81	86	6mer
hsa_circ_0043278	miR-203-3p.1	42	48	7mer-m8
hsa_circ_0043278	miR-204-3p/4646-5p	75	80	6mer
hsa_circ_0043278	miR-214-3p/761/3619-5p	24	30	7mer-1a
hsa_circ_0043278	miR-223-3p	48	53	6mer
hsa_circ_0043278	miR-224-3p/522-3p	41	46	6mer
hsa_circ_0043278	miR-224-5p	50	55	6mer
hsa_circ_0043278	miR-3138	46	52	7mer-1a
hsa_circ_0043278	miR-3148	60	65	6mer
hsa_circ_0043278	miR-3192-5p	75	80	6mer
hsa_circ_0043278	miR-3200-5p	55	61	7mer-m8

hsa_circ_0043278	miR-3688-3p	39	44	6mer
hsa_circ_0043278	miR-4267	79	85	7mer-1a
hsa_circ_0043278	miR-4274	23	28	6mer
hsa_circ_0043278	miR-4274	84	90	7mer-m8
hsa_circ_0043278	miR-4276	46	52	7mer-m8
hsa_circ_0043278	miR-4291	24	30	7mer-m8
hsa_circ_0043278	miR-4328	20	26	7mer-m8
hsa_circ_0043278	miR-4468	86	92	7mer-1a
hsa_circ_0043278	miR-4496	61	66	6mer
hsa_circ_0043278	miR-450-3p/769-3p	73	79	7mer-m8
hsa_circ_0043278	miR-4519	23	28	6mer
hsa_circ_0043278	miR-4519	85	90	6mer
hsa_circ_0043278	miR-455-3p.1	82	88	7mer-m8
hsa_circ_0043278	miR-4659-3p	93	100	8mer-1a
hsa_circ_0043278	miR-4668-3p	58	63	6mer
hsa_circ_0043278	miR-4687-3p	32	38	7mer-1a
hsa_circ_0043278	miR-4694-3p	40	46	7mer-m8
hsa_circ_0043278	miR-4697-3p	47	53	7mer-m8
hsa_circ_0043278	miR-4700-3p	63	68	6mer
hsa_circ_0043278	miR-4713-3p	73	79	7mer-1a
hsa_circ_0043278	miR-4731-5p	76	81	6mer
hsa_circ_0043278	miR-4778-3p	92	98	7mer-1a
hsa_circ_0043278	miR-4790-3p	36	41	6mer
hsa_circ_0043278	miR-5089-5p	74	79	6mer
hsa_circ_0043278	miR-5190	46	52	7mer-1a
hsa_circ_0043278	miR-5197-5p	35	40	6mer
hsa_circ_0043278	miR-526-5p	89	96	8mer-1a
hsa_circ_0043278	miR-5589-5p	76	81	6mer
hsa_circ_0043278	miR-561-5p	68	74	7mer-m8

hsa_circ_0043278	miR-573/3616-5p	52	57	6mer
hsa_circ_0043278	miR-578	91	96	6mer
hsa_circ_0043278	miR-592	28	34	7mer-m8
hsa_circ_0043278	miR-597-5p	28	34	7mer-1a
hsa_circ_0043278	miR-6124	60	65	6mer
hsa_circ_0043278	miR-619-5p/6506-5p	74	80	7mer-m8
hsa_circ_0043278	miR-638	73	79	7mer-1a
hsa_circ_0043278	miR-647	33	38	6mer
hsa_circ_0043278	miR-6505-5p	38	43	6mer
hsa_circ_0043278	miR-6512-3p/6720-5p	80	85	6mer
hsa_circ_0043278	miR-664-5p	33	38	6mer
hsa_circ_0043278	miR-6728-5p	74	79	6mer
hsa_circ_0043278	miR-6816-3p	67	72	6mer
hsa_circ_0043278	miR-6830-5p	68	74	7mer-1a
hsa_circ_0043278	miR-6842-3p	33	38	6mer
hsa_circ_0043278	miR-6875-3p	94	100	7mer-1a
hsa_circ_0043278	miR-6885-3p	15	22	8mer-1a
hsa_circ_0043278	miR-7974	31	38	8mer-1a
hsa_circ_0043278	miR-8080	66	72	7mer-m8
hsa_circ_0043278	miR-873-5p.1	62	67	6mer
hsa_circ_0043278	miR-889-5p	33	39	7mer-m8
hsa_circ_0043278	miR-922	24	30	7mer-1a

MSA, multiple sequence alignment; miRNA, microRNA; circRNA, circular RNAs; hsa, Homo sapiens.