

Supplementary 6. Detailed information of NamiRNAs in HCC

KNSTRN-associated miRNAs	Enhancer-associated miRNAs	Differentially expressed miRNAs
hsa-let-7a-1	hsa-miR-4258	hsa-let-7a-5p
hsa-let-7a-2	hsa-miR-1908	hsa-let-7b-5p
hsa-let-7a-3	hsa-miR-4710	hsa-let-7c-5p
hsa-let-7b	hsa-miR-4519	hsa-let-7d-5p
hsa-let-7c	hsa-miR-21	hsa-let-7e-5p
hsa-let-7d	hsa-miR-4521	hsa-let-7f-5p
hsa-let-7e	hsa-miR-4530	hsa-miR-15a-5p
hsa-let-7f-1	hsa-miR-760	hsa-miR-16-5p
hsa-let-7f-2	hsa-miR-3190	hsa-miR-17-5p
hsa-let-7g	hsa-miR-3191	hsa-miR-17-3p
hsa-let-7i	hsa-miR-4645	hsa-miR-18a-5p
hsa-miR-1-1	hsa-miR-1204	hsa-miR-19a-3p
hsa-miR-1-2	hsa-miR-3153	hsa-miR-19b-3p
hsa-miR-100	hsa-miR-3687	hsa-miR-20a-5p
hsa-miR-101-1	hsa-miR-4477a	hsa-miR-21-5p
hsa-miR-101-2	hsa-miR-4477b	hsa-miR-22-3p
hsa-miR-103-1	hsa-miR-6087	hsa-miR-23a-3p
hsa-miR-103-2	hsa-miR-663a	hsa-miR-24-1-5p
hsa-miR-105-1	hsa-miR-3648	hsa-miR-24-3p
hsa-miR-105-2	hsa-miR-365a	hsa-miR-25-3p
hsa-miR-106a	hsa-miR-3654	hsa-miR-26a-5p
hsa-miR-106b	hsa-miR-4496	hsa-miR-26b-5p
hsa-miR-107	hsa-miR-572	hsa-miR-27a-3p
hsa-miR-10a	hsa-miR-4487	hsa-miR-28-5p
hsa-miR-10b	hsa-miR-142	hsa-miR-29a-3p
hsa-miR-1179	hsa-miR-148a	hsa-miR-30a-5p
hsa-miR-1180	hsa-miR-1234	hsa-miR-30a-3p
hsa-miR-1181	hsa-miR-4505	hsa-miR-32-5p
hsa-miR-1182	hsa-miR-3676	hsa-miR-33a-5p
hsa-miR-1185-1	hsa-miR-4466	hsa-miR-92a-3p
hsa-miR-1185-2	hsa-miR-1282	hsa-miR-93-5p
hsa-miR-1193	hsa-miR-3175	hsa-miR-98-5p
hsa-miR-1197	hsa-miR-155	hsa-miR-99a-5p
hsa-miR-122	hsa-miR-193b	hsa-miR-100-5p
hsa-miR-1224	hsa-miR-4799	hsa-miR-101-3p
hsa-miR-1225	hsa-miR-3939	hsa-miR-29b-3p
hsa-miR-1226	hsa-miR-219-1	hsa-miR-103a-3p
hsa-miR-1227	hsa-miR-4784	hsa-miR-106a-5p
hsa-miR-1228	hsa-miR-623	hsa-miR-107
hsa-miR-1229	hsa-miR-4734	hsa-miR-192-5p
hsa-miR-1231	hsa-miR-5193	hsa-miR-197-3p
hsa-miR-1234	hsa-miR-1207	hsa-miR-199a-5p
hsa-miR-1236	hsa-miR-132	hsa-miR-199a-3p
hsa-miR-1237	hsa-miR-548c	hsa-miR-148a-3p
hsa-miR-1238	hsa-miR-548z	hsa-miR-30c-5p
hsa-miR-124-1	hsa-miR-628	hsa-miR-30d-5p

hsa-miR-124-2	hsa-miR-16-2	hsa-miR-139-5p
hsa-miR-124-3	hsa-miR-4471	hsa-miR-10a-5p
hsa-miR-1243	hsa-let-7a-1	hsa-miR-10b-5p
hsa-miR-1245	hsa-miR-6515	hsa-miR-34a-5p
hsa-miR-1246	hsa-miR-4434	hsa-miR-181a-5p
hsa-miR-1247	hsa-miR-4736	hsa-miR-181b-5p
hsa-miR-1248	hsa-miR-5684	hsa-miR-181c-5p
hsa-miR-1249	hsa-miR-1260b	hsa-miR-182-5p
hsa-miR-1250	hsa-miR-4774	hsa-miR-183-5p
hsa-miR-1251	hsa-miR-612	hsa-miR-203a-3p
hsa-miR-1252	hsa-miR-3193	hsa-miR-210-3p
hsa-miR-1254	hsa-miR-4785	hsa-miR-181a-3p
hsa-miR-1255a	hsa-miR-199a-2	hsa-miR-215-5p
hsa-miR-1256	hsa-miR-5087	hsa-miR-217
hsa-miR-1257	hsa-miR-4435-2	hsa-miR-221-3p
hsa-miR-1258	hsa-miR-4435-1	hsa-miR-222-3p
hsa-miR-125a	hsa-miR-554	hsa-miR-223-3p
hsa-miR-125b-1	hsa-miR-647	hsa-miR-224-5p
hsa-miR-125b-2	hsa-miR-25	hsa-miR-200b-3p
hsa-miR-126	hsa-miR-141	hsa-let-7g-5p
hsa-miR-1260	hsa-miR-6723	hsa-let-7i-5p
hsa-miR-1260b	hsa-miR-1205	hsa-miR-15b-5p
hsa-miR-1262	hsa-miR-4296	hsa-miR-23b-3p
hsa-miR-1263	hsa-miR-200c	hsa-miR-27b-3p
hsa-miR-1264	hsa-miR-93	hsa-miR-30b-5p
hsa-miR-1265	hsa-miR-6073	hsa-miR-122-5p
hsa-miR-1266	hsa-miR-6132	hsa-miR-125b-5p
hsa-miR-1267	hsa-miR-22	hsa-miR-128-3p
hsa-miR-1269	hsa-miR-5093	hsa-miR-130a-3p
hsa-miR-127	hsa-miR-6124	hsa-miR-132-3p
hsa-miR-1270-1	hsa-miR-125b-1	hsa-miR-140-5p
hsa-miR-1270-2	hsa-let-7a-2	hsa-miR-142-5p
hsa-miR-1271	hsa-miR-942	hsa-miR-142-3p
hsa-miR-1272	hsa-miR-3165	hsa-miR-143-3p
hsa-miR-1273c	hsa-miR-193a	hsa-miR-145-5p
hsa-miR-1274b	hsa-miR-4439	hsa-miR-152-3p
hsa-miR-1275	hsa-miR-3619	hsa-miR-191-5p
hsa-miR-1276	hsa-miR-583	hsa-miR-9-5p
hsa-miR-1277	hsa-miR-30a	hsa-miR-125a-5p
hsa-miR-1278	hsa-miR-3973	hsa-miR-126-5p
hsa-miR-128-1	hsa-miR-6070	hsa-miR-126-3p
hsa-miR-128-2	hsa-miR-196b	hsa-miR-127-3p
hsa-miR-1281	hsa-miR-3978	hsa-miR-134-5p
hsa-miR-1283-1	hsa-miR-619	hsa-miR-146a-5p
hsa-miR-1283-2	hsa-miR-2277	hsa-miR-150-5p
hsa-miR-1284	hsa-miR-3199-1	hsa-miR-185-5p
hsa-miR-1285-1	hsa-miR-3199-2	hsa-miR-186-5p
hsa-miR-1286	hsa-miR-218-1	hsa-miR-193a-3p

hsa-miR-1287	hsa-miR-4657	hsa-miR-194-5p
hsa-miR-1288	hsa-miR-3926-1	hsa-miR-195-5p
hsa-miR-1289-1	hsa-miR-3926-2	hsa-miR-320a
hsa-miR-129-1	hsa-miR-648	hsa-miR-200c-3p
hsa-miR-129-2	hsa-miR-378h	hsa-miR-155-5p
hsa-miR-1290	hsa-miR-17	hsa-miR-106b-5p
hsa-miR-1291	hsa-miR-6081	hsa-miR-29c-3p
hsa-miR-1292	hsa-miR-6076	hsa-miR-301a-3p
hsa-miR-1293	hsa-miR-3179-1	hsa-miR-99b-5p
hsa-miR-1294	hsa-miR-3179-2	hsa-miR-130b-3p
hsa-miR-1295	hsa-miR-3179-3	hsa-miR-30e-5p
hsa-miR-1296	hsa-miR-5587	hsa-miR-30e-3p
hsa-miR-1298	hsa-miR-3936	hsa-miR-361-5p
hsa-miR-1301	hsa-miR-4280	hsa-miR-362-5p
hsa-miR-1302-3	hsa-miR-5191	hsa-miR-363-3p
hsa-miR-1303	hsa-miR-3605	hsa-miR-365a-3p
hsa-miR-1304	hsa-miR-1288	hsa-miR-374a-5p
hsa-miR-1305	hsa-miR-4316	hsa-miR-375
hsa-miR-1306	hsa-miR-199a-1	hsa-miR-378a-5p
hsa-miR-1307	hsa-miR-1245a	hsa-miR-378a-3p
hsa-miR-130a	hsa-miR-1245b	hsa-miR-379-5p
hsa-miR-130b	hsa-miR-4757	hsa-miR-381-3p
hsa-miR-132	hsa-miR-5187	hsa-miR-382-5p
hsa-miR-1322	hsa-miR-4761	hsa-miR-340-3p
hsa-miR-1323	hsa-miR-10a	hsa-miR-328-3p
hsa-miR-133a-1	hsa-miR-145	hsa-miR-342-3p
hsa-miR-133a-2	hsa-miR-195	hsa-miR-337-3p
hsa-miR-133b	hsa-miR-301b	hsa-miR-151a-3p
hsa-miR-134	hsa-miR-106b	hsa-miR-148b-3p
hsa-miR-135a-1	hsa-miR-4748	hsa-miR-331-3p
hsa-miR-135a-2	hsa-miR-3649	hsa-miR-324-5p
hsa-miR-135b	hsa-miR-2116	hsa-miR-324-3p
hsa-miR-136	hsa-miR-2682	hsa-miR-338-3p
hsa-miR-137	hsa-miR-137	hsa-miR-339-5p
hsa-miR-138-1	hsa-miR-15b	hsa-miR-335-5p
hsa-miR-138-2	hsa-miR-616	hsa-miR-345-5p
hsa-miR-139	hsa-miR-6077-1	hsa-miR-196b-5p
hsa-miR-140	hsa-miR-6077-2	hsa-miR-423-3p
hsa-miR-141	hsa-miR-4257	hsa-miR-424-5p
hsa-miR-142	hsa-miR-378j	hsa-miR-425-3p
hsa-miR-143	hsa-miR-4493	hsa-miR-20b-5p
hsa-miR-144	hsa-miR-548ac	hsa-miR-450a-5p
hsa-miR-145	hsa-miR-9-1	hsa-miR-451a
hsa-miR-1468	hsa-miR-4425	hsa-miR-452-5p
hsa-miR-146a	hsa-miR-4539	hsa-miR-409-3p
hsa-miR-146b	hsa-miR-4507	hsa-miR-484
hsa-miR-147b	hsa-miR-4537	hsa-miR-486-5p
hsa-miR-148a	hsa-miR-5195	hsa-miR-511-5p

hsa-miR-148b	hsa-miR-625	hsa-miR-146b-5p
hsa-miR-149	hsa-miR-4513	hsa-miR-193b-3p
hsa-miR-150	hsa-miR-5094	hsa-miR-497-5p
hsa-miR-151	hsa-miR-3679	hsa-miR-181d-5p
hsa-miR-152	hsa-miR-4437	hsa-miR-500a-3p
hsa-miR-153-1	hsa-miR-378i	hsa-miR-503-5p
hsa-miR-153-2	hsa-miR-567	hsa-miR-505-3p
hsa-miR-1537	hsa-miR-3945	hsa-miR-532-5p
hsa-miR-1538	hsa-miR-3142	hsa-miR-455-5p
hsa-miR-1539	hsa-miR-4462	hsa-miR-92b-3p
hsa-miR-154	hsa-miR-339	hsa-miR-574-3p
hsa-miR-155	hsa-miR-129-1	hsa-miR-576-5p
hsa-miR-15a	hsa-miR-4659a	hsa-miR-584-5p
hsa-miR-15b	hsa-miR-4659b	hsa-miR-590-5p
hsa-miR-16-1	hsa-miR-766	hsa-miR-598-3p
hsa-miR-16-2	hsa-miR-3202-1	hsa-miR-624-5p
hsa-miR-17	hsa-miR-3202-2	hsa-miR-652-3p
hsa-miR-181a-1	hsa-miR-1184-1	hsa-miR-660-5p
hsa-miR-181a-2	hsa-miR-1184-2	hsa-miR-542-3p
hsa-miR-181b-1	hsa-miR-548f-1	hsa-miR-425-5p
hsa-miR-181b-2	hsa-miR-107	hsa-miR-758-3p
hsa-miR-181c	hsa-miR-92b	hsa-miR-454-3p
hsa-miR-181d	hsa-miR-326	hsa-miR-769-5p
hsa-miR-182	hsa-miR-4422	hsa-miR-766-3p
hsa-miR-1825	hsa-miR-4311	hsa-let-7a-3p
hsa-miR-1827	hsa-miR-3177	hsa-let-7b-3p
hsa-miR-183	hsa-miR-4252	hsa-let-7d-3p
hsa-miR-184	hsa-miR-4729	hsa-miR-16-1-3p
hsa-miR-185	hsa-miR-4743	hsa-miR-19b-1-5p
hsa-miR-186	hsa-miR-5011	hsa-miR-21-3p
hsa-miR-187	hsa-miR-150	hsa-miR-22-5p
hsa-miR-188	hsa-miR-512-1	hsa-miR-24-2-5p
hsa-miR-18a	hsa-miR-519d	hsa-miR-26b-3p
hsa-miR-18b	hsa-miR-4745	hsa-miR-28-3p
hsa-miR-190	hsa-miR-1825	hsa-miR-29a-5p
hsa-miR-1908	hsa-miR-1914	hsa-miR-93-3p
hsa-miR-1909	hsa-miR-548j	hsa-miR-101-5p
hsa-miR-190b	hsa-miR-885	hsa-miR-29b-2-5p
hsa-miR-191	hsa-miR-367	hsa-miR-16-2-3p
hsa-miR-1910	hsa-miR-302d	hsa-miR-192-3p
hsa-miR-1911	hsa-miR-302a	hsa-miR-148a-5p
hsa-miR-1912	hsa-miR-302c	hsa-miR-30c-2-3p
hsa-miR-1913	hsa-miR-302b	hsa-miR-30d-3p
hsa-miR-1914	hsa-miR-146a	hsa-miR-139-3p
hsa-miR-1915	hsa-miR-9-2	hsa-miR-7-1-3p
hsa-miR-192	hsa-miR-548u	hsa-miR-181a-2-3p
hsa-miR-193a	hsa-miR-490	hsa-miR-181c-3p
hsa-miR-193b	hsa-miR-4648	hsa-miR-199b-3p

hsa-miR-194-1	hsa-miR-3674	hsa-let-7g-3p
hsa-miR-194-2	hsa-miR-4288	hsa-let-7i-3p
hsa-miR-195	hsa-miR-600	hsa-miR-15b-3p
hsa-miR-196a-1	hsa-miR-1299	hsa-miR-27b-5p
hsa-miR-196a-2	hsa-miR-4293	hsa-miR-30b-3p
hsa-miR-196b	hsa-miR-675	hsa-miR-140-3p
hsa-miR-197	hsa-miR-3160-1	hsa-miR-143-5p
hsa-miR-1976	hsa-miR-3160-2	hsa-miR-144-5p
hsa-miR-198	hsa-miR-196a-2	hsa-miR-145-3p
hsa-miR-199a-1	hsa-miR-1249	hsa-miR-127-5p
hsa-miR-199a-2	hsa-let-7a-3	hsa-miR-136-3p
hsa-miR-199b	hsa-miR-26a-1	hsa-miR-193a-5p
hsa-miR-19a	hsa-miR-4451	hsa-miR-194-3p
hsa-miR-19b-1	hsa-miR-206	hsa-miR-106b-3p
hsa-miR-19b-2	hsa-miR-29a	hsa-miR-29c-5p
hsa-miR-200a	hsa-miR-589	hsa-miR-99b-3p
hsa-miR-200b	hsa-miR-3914-1	hsa-miR-130b-5p
hsa-miR-200c	hsa-miR-3914-2	hsa-miR-361-3p
hsa-miR-202	hsa-miR-1208	hsa-miR-362-3p
hsa-miR-203	hsa-miR-2278	hsa-miR-374a-3p
hsa-miR-204	hsa-miR-23b	hsa-miR-340-5p
hsa-miR-205	hsa-miR-27b	hsa-miR-330-5p
hsa-miR-206	hsa-miR-3074	hsa-miR-151a-5p
hsa-miR-208a	hsa-miR-24-1	hsa-miR-335-3p
hsa-miR-208b	hsa-miR-374a	hsa-miR-423-5p
hsa-miR-20a	hsa-miR-614	hsa-miR-146b-3p
hsa-miR-20b	hsa-miR-320b-2	hsa-miR-193b-5p
hsa-miR-21	hsa-miR-154	hsa-miR-500a-5p
hsa-miR-210	hsa-miR-377	hsa-miR-501-3p
hsa-miR-211	hsa-miR-4720	hsa-miR-502-3p
hsa-miR-2110	hsa-miR-6504	hsa-miR-505-5p
hsa-miR-2113	hsa-miR-4529	hsa-miR-532-3p
hsa-miR-2114	hsa-miR-935	hsa-miR-455-3p
hsa-miR-2115	hsa-miR-216a	hsa-miR-582-3p
hsa-miR-2116	hsa-miR-580	hsa-miR-589-5p
hsa-miR-2117	hsa-miR-3934	hsa-miR-590-3p
hsa-miR-212	hsa-miR-5690	hsa-miR-625-3p
hsa-miR-214	hsa-miR-1322	hsa-miR-628-5p
hsa-miR-215	hsa-miR-151a	hsa-miR-654-3p
hsa-miR-216a	hsa-miR-4672	hsa-miR-450b-5p
hsa-miR-216b	hsa-miR-126	hsa-miR-874-3p
hsa-miR-217	hsa-miR-505	hsa-miR-744-5p
hsa-miR-218-1	hsa-miR-146b	hsa-miR-744-3p
hsa-miR-218-2	hsa-miR-607	hsa-miR-885-5p
hsa-miR-219-1	hsa-miR-210	hsa-miR-374b-5p
hsa-miR-219-2	hsa-miR-3163	hsa-miR-942-5p
hsa-miR-22	hsa-miR-3675	hsa-miR-1301-3p
hsa-miR-221	hsa-miR-148b	hsa-miR-1180-3p

hsa-miR-222	hsa-miR-18a	hsa-miR-1287-5p
hsa-miR-223	hsa-miR-19a	hsa-miR-664a-3p
hsa-miR-224	hsa-miR-20a	hsa-miR-1307-3p
hsa-miR-2276	hsa-miR-19b-1	hsa-miR-675-3p
hsa-miR-2277	hsa-miR-92a-1	hsa-miR-1976
hsa-miR-2278	hsa-miR-4309	hsa-miR-3065-3p
hsa-miR-2355	hsa-miR-4706	hsa-miR-378c
hsa-miR-23a	hsa-miR-451a	hsa-miR-2355-5p
hsa-miR-23b	hsa-miR-451b	hsa-miR-500b-5p
hsa-miR-23c	hsa-miR-144	hsa-miR-3607-3p
hsa-miR-24-1	hsa-miR-4732	hsa-miR-3613-5p
hsa-miR-24-2	hsa-miR-4726	hsa-miR-3615
hsa-miR-25	hsa-miR-196a-1	hsa-miR-3074-5p
hsa-miR-26a-1	hsa-miR-4524b	hsa-miR-4662a-5p
hsa-miR-26a-2	hsa-miR-4524a	hsa-miR-4677-3p
hsa-miR-26b	hsa-miR-641	hsa-miR-1306-5p
hsa-miR-27a	hsa-miR-1302-10	hsa-miR-1307-5p
hsa-miR-27b	hsa-miR-3618	hsa-miR-365b-3p
hsa-miR-28	hsa-miR-1306	hsa-miR-6511b-3p
hsa-miR-296	hsa-miR-4441	
hsa-miR-299	hsa-miR-4766	
hsa-miR-29a	hsa-miR-4792	
hsa-miR-29b-1	hsa-miR-4276	
hsa-miR-29b-2	hsa-miR-378a	
hsa-miR-29c	hsa-miR-3662	
hsa-miR-301a	hsa-miR-3692	
hsa-miR-301b	hsa-miR-4646	
hsa-miR-302a	hsa-miR-4658	
hsa-miR-302b	hsa-miR-1302-8	
hsa-miR-3065	hsa-miR-101-2	
hsa-miR-3074	hsa-miR-223	
hsa-miR-30a	hsa-miR-548e	
hsa-miR-30b	hsa-miR-4256	
hsa-miR-30c-1	hsa-miR-135b	
hsa-miR-30c-2	hsa-miR-205	
hsa-miR-30d	hsa-miR-3122	
hsa-miR-30e	hsa-miR-1182	
hsa-miR-31	hsa-miR-5700	
hsa-miR-3115	hsa-miR-5572	
hsa-miR-3116-1	hsa-miR-1276	
hsa-miR-3116-2	hsa-miR-2117	
hsa-miR-3117	hsa-miR-301a	
hsa-miR-3120	hsa-miR-5047	
hsa-miR-3121	hsa-miR-4520a	
hsa-miR-3124	hsa-miR-4520b	
hsa-miR-3125	hsa-miR-133a-1	
hsa-miR-3126	hsa-miR-3646	
hsa-miR-3127	hsa-miR-4797	

hsa-miR-3128	hsa-let-7g
hsa-miR-3129	hsa-miR-575
hsa-miR-3130-1	hsa-miR-3684
hsa-miR-3130-2	hsa-miR-4279
hsa-miR-3131	hsa-miR-587
hsa-miR-3132	hsa-miR-4653
hsa-miR-3133	hsa-miR-550a-1
hsa-miR-3135	hsa-miR-550b-1
hsa-miR-3136	hsa-miR-591
hsa-miR-3137	hsa-miR-3609
hsa-miR-3138	hsa-miR-3170
hsa-miR-3139	hsa-miR-34a
hsa-miR-3140	hsa-miR-3125
hsa-miR-3141	hsa-miR-143
hsa-miR-3143	hsa-miR-30d
hsa-miR-3144	hsa-miR-199b
hsa-miR-3145	hsa-miR-4289
hsa-miR-3146	
hsa-miR-3147	
hsa-miR-3148	
hsa-miR-3149	
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hsa-miR-3150b	
hsa-miR-3151	
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hsa-miR-3153	
hsa-miR-3154	
hsa-miR-3155	
hsa-miR-3156-2	
hsa-miR-3156-3	
hsa-miR-3157	
hsa-miR-3158-1	
hsa-miR-3158-2	
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