

Supplementary Table 1. The differentially expressed genes in AS pathway in CC

Gene	Caski-NC	Caski-si RNA	Ms751-NC	Ms751-siRNA
ACIN1	1213.21	1057.72	1997.32	1085.79
AQR	61.01	51.80	171.57	36.03
BCAS2	1432.93	746.15	1347.12	608.66
BUB3	2933.97	2151.46	3300.73	1666.47
BUD31	5673.95	4259.57	5070.61	3189.58
C9orf78	1402.55	1404.49	1843.56	975.06
CACTIN	3588.12	3937.86	2412.18	1779.06
CD2BP2	503.78	761.79	776.43	560.62
CDC40	246.15	153.54	244.71	259.32
CDC5L	650.12	317.49	809.71	209.89
CHERP	3245.87	2668.85	2069.03	1399.02
CRNKL1	49.81	40.52	98.71	33.59
CTNBL1	1733.74	1269.76	569.34	367.97
CWC15	5608.57	5182.89	2856.14	1256.28
CXorf56	361.77	330.44	342.36	224.17
DDX23	3397.23	3141.90	9730.73	6595.72
DDX35,(DHX35)	3266.16	2324.62	1593.69	804.77
DDX41	3673.36	3825.66	2597.95	2054.95
DDX46	153.14	63.39	395.12	81.75
DDX15	1075.34	539.52	2050.83	402.18
DDX8	1455.88	1156.80	1730.16	1001.16
EFTUD2	29702.91	27308.35	27383.02	21561.70
FAM50A	5346.54	5367.47	2896.43	2552.26
HNRNPA0	3291.21	4370.67	6703.09	5484.26
HNRNPA1	30618.06	15532.09	46363.62	19625.74
HNRNPA2B1	5879.85	2679.79	6354.45	2052.24
HNRNPA3	25448.61	11710.04	34419.95	14219.68
HNRNPC	50760.55	36422.11	48610.31	31542.01
HNRNPD	20924.58	10992.29	21572.76	13003.76
HNRNPF	5326.10	3526.99	5488.27	3320.44
HNRNPH1	3846.41	2008.85	4633.39	2009.24
HNRNPH3	1528.72	893.29	1611.37	683.89
HNRNPK	4038.52	2539.92	4578.68	2087.32
HNRNPL	6872.23	5362.76	6379.18	4532.30
HNRNPM	17899.96	12458.20	19750.73	10244.01
HNRNPR	1396.88	526.20	2193.02	722.26
HNRNPU	4332.28	2078.48	5585.10	2474.48
HNRNPUL1	9393.89	5306.28	8986.04	5462.41
HSPA4	10533.12	6209.26	6209.26	5392.35
HSPA5	3623.36	3304.37	2767.52	1440.69
HSPA8	74251.02	83310.25	117109.40	57894.33
HTATSF1	3337.25	1716.41	3824.14	1535.22
HTRA2	3993.48	3191.34	1945.56	1800.14
IK	1684.68	1023.86	3993.90	1225.33

ISY1	1041.02	1058.21	1360.90	870.78
LSM2	5955.12	4257.96	5506.15	5039.44
LSM3	17802.57	11573.29	17623.51	14413.42
LSM4	16088.83	12577.94	12492.01	10145.30
LSM6	6360.16	2728.42	2660.91	1848.74
LSM7	44792.60	39114.64	23520.26	18306.24
LSM8	9782.32	6801.21	5845.64	3907.64
MAGOH	2876.20	2383.42	5435.29	3116.78
MATR3	379.25	254.44	907.72	243.16
NAA38	9782.32	6801.21	5845.64	3907.64
NFATC2IP	332.41	234.67	300.93	145.67
NHP2L1	32776.96	31309.89	21019.01	13714.85
NOSIP	28742.67	32265.47	18938.90	18872.72
PABPN1	18440.16	14875.40	22559.38	14765.81
PHF5A	1436.57	1326.60	1037.66	695.62
PLRG1	537.90	468.27	497.28	293.32
PPIE	1979.68	1421.20	1328.73	971.30
PPIG	291.10	145.41	273.17	69.10
PPIH	519.92	290.33	657.31	412.97
PPIL1	7741.08	5984.06	5847.17	2329.42
PPIL2	573.91	722.52	891.71	683.33
PPIL3	1373.00	870.90	925.20	377.73
PPWD1	181.26	65.53	189.00	45.00
PQBP1	2248.22	2813.39	2871.82	2154.50
PRPF18	264.07	168.45	391.55	138.53
PRPF19	376.90	427.05	488.00	517.62
PRPF3	374.30	235.55	483.68	215.39
PRPF31	14369.95	15405.17	13908.31	9544.51
PRPF4	3356.02	1497.45	3218.95	1590.25
PRPF4B	262.34	174.73	299.78	109.31
PRPF6	6828.62	7323.14	5482.45	4591.98
PRPF8	7900.50	7646.97	10514.35	6786.04
PTBP1	408.68	364.47	387.63	241.59
PUF60	20288.77	20138.20	12532.27	10991.26
RALY	5512.14	4876.69	4020.48	3286.08
RBM17	1297.96	720.43	2143.31	945.39
RBM22	1393.41	1203.06	1455.60	671.21
RBM8A	30109.60	23153.38	31598.59	20165.27
RBMX	15378.45	9916.65	15251.81	6857.54
SART1	2900.48	2962.14	2730.38	2122.77
SF3A1	6247.43	6026.31	6617.57	5283.30
SF3A2	4222.09	5391.03	3932.84	3685.08
SF3A3	3572.09	2849.09	6360.50	2964.78
SF3B1	1709.37	882.23	5714.05	1325.81
SF3B14	14774.49	11697.05	11973.09	8464.68
SF3B2	11250.44	11250.44	12991.90	9037.02
SF3B3	6330.39	5506.65	6308.26	4171.14

SF3B4	96.77	109.92	145.56	97.82
SLU7	528.17	328.71	1027.84	350.44
SMNDC1	5111.85	3125.45	4688.86	2224.08
SNRNP200	9614.86	8085.63	11267.67	6191.32
SNRNP27	2654.89	2057.05	2287.81	1308.44
SNRNP40	1156.67	684.85	1160.51	843.68
SNRNP70	34271.70	24363.63	30546.64	23427.12
SNRPA	4834.20	3194.15	4375.89	3237.95
SNRPA1	1516.05	686.97	5603.53	2819.52
SNRPB	20983.50	13005.16	23896.36	18731.84
SNRPB2	1397.44	1318.26	1831.59	865.17
SNRPC	47249.11	41026.97	44734.29	28926.55
SNRPD1	22546.73	12523.70	32178.98	19065.82
SNRPD2	45667.27	48627.74	40576.07	31320.33
SNRPD3	11549.86	7817.71	23719.32	12675.03
SNRPE	10615.76	8592.50	14246.03	8754.05
SNRPF	44792.39	31666.00	48785.60	36565.53
SNRPG	29247.19	18456.79	31132.64	24287.71
SNW1	2277.30	1499.47	2104.65	658.55
SRP40	6799.37	7862.15	6591.98	3063.60
SRP54	315.76	138.78	251.38	74.96
SRRM1	3784.05	2435.71	2644.33	1419.40
SRSF1	3511.24	1776.80	4701.21	1757.34
SRSF12	42.06	26.08	32.03	25.29
SRSF2	13044.03	8691.06	14542.01	6392.61
SRSF3	17378.87	8301.04	22107.44	9135.91
SRSF4	11205.94	5612.05	9275.51	5019.03
SRSF6	1523.13	1206.27	978.74	586.34
SRSF7	7064.08	3312.23	6369.03	2709.40
SRSF9	6051.84	4869.39	7962.90	5519.32
SRSF10	1263.01	350.42	2782.27	909.88
SYF2	388.33	352.26	935.71	369.16
SYNCRIP	2583.47	1504.25	5606.48	2037.82
TXNL4A	20640.82	16536.51	18423.99	13949.38
U2AF1	45482.08	40225.25	41046.59	32164.90
U2AF2	1108.48	887.45	2158.94	1591.92
U2SURP	174.83	97.30	326.58	77.28
USP39	24928.53	14711.32	30893.50	19005.54
WBP11	3607.20	2571.73	5386.06	2411.04
WDR83	1169.65	997.20	565.04	468.69
XAB2	206.03	136.78	72.70	62.23
YBX1	94493.80	76303.94	80301.72	39785.26
ZMAT2	3316.45	2626.09	4624.03	2460.07