

**Supplementary Table 3.** Differentially expressed genes in comparisons between tumor and ANT tissues in patients with HCV-related HCC up-regulated genes

Annotation	Normalized Intensity		T	Fold change (T/ANT ratio)	
	ANT	T			
NM_003276.2	NP_003267.1	279.74423	2.14238	thymopoietin	
NM_001256068.1,NM_001256067.1,NM_0066471	NP_001242997.1,NP_001242996.1,NP_006638.1	3631.021	2.4324506	NADPH oxidase activator 1	
NM_006618.3	NP_006609.3	331.91725	2.4714504	lysine (K)-specific demethylase 5B	
NM_033514.4,NM_001205288.1	NP_277049.1,NP_001192217.1	6147.0137	2.4871008	LIM and senescent cell antigen-like domains 3	
NM_052837.2,NM_005698.3	NP_443069.1,NP_005689.2	3415.4593	2.5082643	secretory carrier membrane protein 3	
NM_016222.2	NP_057306.2	347.42428	2.5286162	DEAD (Asp-Glu-Ala-Asp) box polypeptide 41	
NM_001122764.1,NM_000309.3	NP_001116236.1,NP_000300.1	484.918315	2.5291681	protoporphyrinogen oxidase	
NR_002944.2,NM_001011725.1,NM_001011724.1	-[NP_001011725.1,NP_001011724.1	2895.84514	2.6275404	heterogeneous nuclear ribonucleoprotein A1 pseudogene 10	
NM_203401.1,NM_203399.1,NM_005563.3	NP_981946.1,NP_981944.1,NP_005554.1	1168.3966	2.7313966	stathmin 1	
NM_001205255.1,NM_001205254.1,NM_0025383	NP_001192184.1,NP_001192183.1,NP_0025291	186.310755	2.7387825	occludin	
NM_003107.2	NP_003098.1	117.798594	2.7589472	SOX4	
NM_001012271.1,NM_001012270.1,NM_01168.2	NP_001012271.1,NP_001012270.1,NP_001159.2	202.00725	2.7941144	BIRC5	
NM_005733.2	NP_005724.1	176.944789	2.7961921	KIF20A	
NM_202004.3,NM_145277.4,NM_213652.3,NM_213653.3,XM_003960176.1,XM_003960175.1,XM_003960174.1	NP_973733.1,NP_660320.3,NP_998817.1,NP_998818.1,XP_003960225.1,XP_003960224.1,XP_003960223.1	8471.29863	2.7974458	HFE2 LOC101060525 (juvenile)hemojuvelin-like	
NM_001201326.1,NM_001201325.1,NM_02614.4	NP_001188255.1,NP_001188254.1,NP_002605.2	4046.83529	2.8316178	PDZK1	
NM_001395.2	NP_001386.1	82.5401052	2.8961138	DUSP9	
NM_153357.1	NP_699188.1	345.493703	2.9271331	SLC16A11	
NM_005318.3	NP_005309.1	545.221841	2.9472199	H1FO	
NM_006051.3,NM_133174.2,NM_133173.2,NM_133172.2	NP_006042.3,NP_573420.2,NP_573419.2,NP_573418.2	143.760751	3.0244376	APBB3	
NM_018457.3,NM_001005354.2	NP_060927.1,NP_001005354.1	155.854177	3.0636466	PRR13	
NM_002105.2	NP_002096.1	903.61204	2.817523	H2AFX	
NM_001813.2	NP_001804.2	207.63974	3.124638	CENPE	
NM_006651.3	NP_006642.1	284.644816	3.1250391	CPLX1	
NM_001185023.1,NM_001185022.1,NM_001307.5	NP_001171952.1,NP_001171951.1,NP_0012983	401.992045	3.1342969	CLDN7	

Supplementary Table 3. Continued

Annotation	Normalized Intensity		Fold change (T/ANT ratio)	
	ANT	T		
NM_014873.2	NP_055688.1	643.950155	2084.4993	LPGAT1 lysophosphatidylglycerol acyltransferase 1
NM_001145364.1,NM_148913.2,NM_148912.2,NR_026910.1	NP_001138836.1,NP_683711.1,NP_683710.1,-	147.070953	481.03811	ABHD11 abhydrolase domain containing 11
NM_001025603.1,NM_000449.3	NP_001020774.1,NP_000440.1	684.342529	2243.1175	RFX5 regulatory factor X, 5 (influences HLA class II expression)
NM_000780.3	NP_000771.2	399.911138	1311.833	CYP7A1 cytochrome P450, family 7, subfamily A, polypeptide 1
NM_001190.3,NM_001164773.1,NR_028451.1,NR_028450.1	NP_001181.2,NP_001158245.1,-	323.131887	1060.0026	BCAT2 branched chain amino-acid transaminase 2, mitochondrial
NM_005761.2,NR_037687.1	NP_005752.1,-	125.301753	431.42776	PLXNC1 plexin C1
NM_015714.3	NP_056529.1	11827.1061	42194.82	G0S2 G0/Giswitch 2
NM_001048201.1,NM_013282.3	NP_001041666.1,NP_037414.3	130.292023	466.62294	UHRF1 ubiquitin-like with PHD and ring finger domains 1
NM_012291.4	NP_036423.4	218.340607	802.08236	ESPL1 extra spindle pole bodies homolog 1 (S. cerevisiae)
NM_000077.4,NM_058197.4,NM_058195.3,NM_001195132.1	NP_000068.1,NP_478104.2,NP_478102.2,NP_001182061.1	118.280886	442.1714	CDKN2A cyclin-dependent kinase inhibitor 2A
NM_001113482.1,NM_001031740.2,NM_152496.2	NP_001106954.1,NP_001026910.1,NP_689709.1	226.971675	849.13019	MANEAL mannosidase, endo-alpha-like
NM_005397.3,NM_001018111.2	NP_005388.2,NP_001018121.1	935.900189	3549.6427	PODXL podocalyxin-like
NR_024345.1	-	765.161133	2934.5989	HNFI1A-AS1 HNFI1A antisense RNA 1
NM_001034077.4,NM_003548.2	NP_001029249.1,NP_0035539.1	513.783712	1974.7767	HIST2H4B HIST2H4A histone cluster 2, H4b histone cluster 2, H4a
NM_001846.2	NP_001837.2	682.332296	2765.2916	COL4A2 collagen, type IV, alpha 2
NM_031310.1	NP_112600.1	373.150696	1513.1998	PLVAP plasmalemma vesicle associated protein
NM_014736.4	NP_055551.1	305.352748	1274.3246	KIAA0101 KIAA0101
NM_001244714.1,NM_18291.3	NP_001231643.1,NP_00106882.1,NP_060761.3	6541.2072	27461.104	FGGY FGGY carbohydate kinase domain containing
NM_002668.2	NP_002659.1	317.308421	1407.1167	PLP2 proteolipid protein 2 (colonic epithelium-enriched)
NM_004961.3	NP_004952.2	100.6084	448.75281	GABRE gamma-aminobutyric acid (GABA) A receptor, epsilon
NM_001007225.1,NM_006548.4	NP_001007226.1,NP_006539.3	369.786122	1669.6744	IGF2BP2 insulin-like growth factor 2 mRNA binding protein 2
NM_001276.2	NP_001267.2	4855.98438	22026.442	CHI3L1 chitinase 3-like 1 (cartilage glycoprotein-39)

Supplementary Table 3. Continued

Annotation	Normalized Intensity		Fold change (T/ANT ratio)	Family with sequence similarity
	ANT	T		
NM_152421.3	NP_689634.2	1307.3205	4.5422421	FAM69B family with sequence similarity 69, member B
NM_001015050.2,NM_001195223.1	NP_001015050.2,NP_001182152.1	1610.1932	4.6013066	ALG1L asparagine-linked glycosylation 1-like
NM_000094.3	NP_000085.1	1304.2555	4.629419	COL7A1 collagen, type VII, alpha 1
NM_001039349.2,NM_001039348.2	NP_001034438.1,NP_001034437.1	471.5403	4.7423682	EFEMP1 EGF containing fibulin-like extracellular matrix protein 1
NM_001206897.1,NM_170697.2,NM_170696.2,NM_003888.3	NP_001193826.1,NP_733798.1,NP_733797.1,NP_0038879.2	551.59743	4.8030855	ALDH1A2 aldehyde dehydrogenase 1 family, member A2
NM_012112.4	NP_036244.2	1239.9312	4.8352317	TPX2 TPX2, microtubule-associated, homolog (Xenopus laevis)
NM_002256.3	NP_002247.3	760.92379	5.0096605	KISS1 KISS-1 metastasis-suppressor
NM_001845.4	NP_001836.2	2587.2798	5.1700078	COL4A1 collagen, type IV, alpha 1
NM_014059.2	NP_054778.2	1630.0894	5.3355508	RGCC regulator of cell cycle
NM_001243144.1,NM_001243143.1,NM_001243142.1,NM_018454.7,NM_016359.4	NP_001230073.1,NP_001230072.1,NP_001230071.1,NP_060924.4,NP_057443.2	2516.8003	5.4316743	NUSAP1 nucleolar and spindle associated protein 1
NM_006578.3,NM_016194.3	NP_0065691,NP_057278.2	1915.7571	5.5266816	GNB5 guanine nucleotide binding protein (G protein), beta 5
NM_001130046.1,NM_004591.2	NP_001123518.1,NP_004582.1	4017.9552	5.5486292	CCL20 chemokine (C-C motif) ligand 20
NM_080668.3	NP_542399.1	666.07443	5.6495308	CDC45 cell division cycle associated 5
NM_014176.3	NP_054895.1	2029.8227	5.7779141	UBE2T ubiquitin-conjugating enzyme E2T (putative)
NM_020675.3	NP_065726.1	406.84262	5.7802946	SPC25 SPC25, NDC80 kinetochore complex component
NM_001165931.1,NM_001034.3	NP_001159403.1,NP_001025.1	1020.0453	6.3385861	RRM2 ribonucleotide reductase M2
NM_001042426.1,NM_001809.3	NP_001035891.1,NP_001800.1	593.07788	6.8761897	CENPA centromere protein A
NM_000089.3	NP_000080.2	144.197159	6.98554	COL1A2 collagen, type I, alpha 2
NM_001067.3	NP_001058.2	836.73513	8.2117881	TOP2A topoisomerase (DNA II) alpha 170kDa
NM_001823.4	NP_001814.2	709.21074	8.9905542	CKB creatine kinase, brain
NM_001270551.1,NR_073039.1,NM_001270552.1,NM_00101233.2,NM_00101233.1,NM_00101233.2,NM_00101233.1,NM_00101233.2,NM_002391.4	NP_001257480.1,-NP_001257481.1,NP_001257482.1,NP_0012333.1,NP_001012334.1,NP_001257479.1,NP_002382.1	379.70988	12.693109	MDK midkine (neurite growth-promoting factor 2)
NM_001958.3	NP_001949.1	4317.3675	37.258528	EEF1A2 eukaryotic translation elongation factor 1 alpha 2
NM_001164619.1,NM_001164618.1,NM_001164617.1,NM_004484.3	NP_001158091.1,NP_001158090.1,NP_001158089.1,NP_004475.1	30933.573	68.770324	GPC3 glypican 3

ANT, adjacent non-tumor tissues; HCV, hepatitis C virus; HCC, hepatocellular carcinoma.