

Supplementary Tables

Supplementary Table S1 *IFITMs* mutations in tumor tissues according to cBioPortal database

Gene	Cancer Type	Protein Change	Mutation Type	Copy #	# Mut in Sample
IFITM1	Astrocytoma	S16Afs*9	FS del	ShallowDel	458
IFITM1	Colon Adenocarcinoma	S16Afs*9	FS del	Diploid	1049
IFITM1	Colon Adenocarcinoma	P20L	Missense	Diploid	1146
IFITM1	Cutaneous Melanoma	L102M	Missense	Diploid	1260
IFITM1	Diffuse Type Stomach Adenocarcinoma	S16Afs*9	FS del	Diploid	551
IFITM1	Glioblastoma Multiforme	A58T	Missense	Diploid	65
IFITM1	Hepatocellular Carcinoma	PTDSS2-IFITM1	Fusion	ShallowDel	120
IFITM1	Intestinal Type Stomach Adenocarcinoma	S16Afs*9	FS del	Diploid	2139
IFITM1	Lung Adenocarcinoma	W49*	Nonsense	Diploid	1014
IFITM1	Papillary Renal Cell Carcinoma	S108C	Missense	Diploid	77
IFITM1	Renal Clear Cell Carcinoma	G74R	Missense	Diploid	46
IFITM1	Serous Ovarian Cancer	E30V	Missense	Amp	55
IFITM1	Stomach Adenocarcinoma	D71N	Missense	Diploid	918
IFITM1	Stomach Adenocarcinoma	R66K	Missense	Diploid	5048
IFITM1	Tubular Stomach Adenocarcinoma	S16Afs*9	FS del	Diploid	1278
IFITM1	Undifferentiated Pleomorphic Sarcoma/Malignant Fibrous Histiocytoma/High-Grade Spindle Cell Sarcoma	E7*	Nonsense	Diploid	75
IFITM1	Uterine Carcinosarcoma/Uterine Malignant Mixed Mullerian Tumor	IGF2BP2-IFITM1	Fusion	Amp	59
IFITM1	Uterine Endometrioid Carcinoma	I18V	Missense	Diploid	4274
IFITM1	Uterine Endometrioid Carcinoma	M1?	Nonstart	Diploid	3383
IFITM1	Uterine Endometrioid Carcinoma	G107S	Missense	Diploid	6445
IFITM1	Uterine Endometrioid Carcinoma	H2R	Missense	Diploid	13865
IFITM1	Uterine Mixed Endometrial Carcinoma	V8A	Missense	Diploid	10493
IFITM2	Breast Invasive Ductal Carcinoma	V44A	Missense	Diploid	24
IFITM2	Cutaneous Melanoma	E20K	Missense	Diploid	1530
IFITM2	Cutaneous Melanoma	X83_splice	Splice	Diploid	1288
IFITM2	Glioblastoma Multiforme	P39S	Missense	Diploid	6908

Supplementary Tables

IFITM2	Hepatocellular Carcinoma	PTDSS2-IFITM2	Fusion	ShallowDel	120
IFITM2	Intestinal Type Stomach Adenocarcinoma	S83C	Missense	Diploid	85
IFITM2	Lung Adenocarcinoma	P17L	Missense	Diploid	438
IFITM2	Lung Squamous Cell Carcinoma	H35N	Missense	Diploid	333
IFITM2	Rectal Adenocarcinoma	F8L	Missense	Diploid	11431
IFITM2	Renal Clear Cell Carcinoma	I75L	Missense	Gain	54
IFITM2	Stomach Adenocarcinoma	A38S	Missense	Diploid	838
IFITM2	Uterine Carcinosarcoma/Uterine Malignant Mixed Mullerian Tumor	IGF2BP2-IFITM2	Fusion	Amp	59
IFITM2	Uterine Endometrioid Carcinoma	F115V	Missense	Diploid	9039
IFITM2	Uterine Endometrioid Carcinoma	M116V	Missense	Diploid	300
IFITM2	Uterine Endometrioid Carcinoma	M21I	Missense	Diploid	11440
IFITM2	Uterine Endometrioid Carcinoma	A76T	Missense	Diploid	11440
IFITM2	Uterine Endometrioid Carcinoma	R48C	Missense	Diploid	9652
IFITM2	Uterine Endometrioid Carcinoma	D91G	Missense	Diploid	10052
IFITM3	Breast Invasive Ductal Carcinoma	F8L	Missense	Diploid	43
IFITM3	Uterine Endometrioid Carcinoma	L32M	Missense	Diploid	9706
IFITM3	Uterine Endometrioid Carcinoma	V82A	Missense	Diploid	806
IFITM3	Lung Squamous Cell Carcinoma	F9del	IF del	Diploid	1070
IFITM3	Breast Invasive Carcinoma	M117L	Missense	ShallowDel	30
IFITM3	Hepatocellular Carcinoma	Q6*	Nonsense	Diploid	86
IFITM3	Hepatocellular Carcinoma	W60Gfs*9	FS del	Diploid	117
IFITM3	Pleural Mesothelioma, Epithelioid Type	I108S	Missense	Gain	18
IFITM3	Cutaneous Melanoma	G33E	Missense	ShallowDel	2073
IFITM3	Cervical Squamous Cell Carcinoma	E51Q	Missense	Diploid	1868
IFITM3	Cutaneous Melanoma	A30V	Missense	Diploid	1232
IFITM3	Colon Adenocarcinoma	C71Y	Missense	Diploid	2375
IFITM3	Lung Adenocarcinoma	T42Dfs*44	FS ins	Gain	1583
IFITM5	Bladder Urothelial Carcinoma	L49V	Missense	ShallowDel	172
IFITM5	Breast Invasive Ductal Carcinoma	T10I	Missense	DeepDel	130

Supplementary Tables

IFITM5	Breast Invasive Ductal Carcinoma	R34P	Missense	Diploid	89
IFITM5	Breast Invasive Lobular Carcin	P32L	Missense	Diploid	13
IFITM5	Cervical Squamous Cell Carcinoma	H30Y	Missense	Diploid	11306
IFITM5	Colon Adenocarcinoma	P29L	Missense	Diploid	1065
IFITM5	Colon Adenocarcinoma	P29Rfs*9	FS del	Diploid	2013
IFITM5	Colon Adenocarcinoma	A90V	Missense	Diploid	94
IFITM5	Cutaneous Melanoma	A89V	Missense		1397
IFITM5	Glioblastoma Multiforme	G53D	Missense	Diploid	6908
IFITM5	Hepatocellular Carcinoma	A28V	Missense	Diploid	73
IFITM5	Intestinal Type Stomach Adenocarcinoma	C50R	Missense	Diploid	850
IFITM5	Lung Adenocarcinoma	A20S	Missense	Diploid	244
IFITM5	Lung Adenocarcinoma	R64*	Nonsense	Diploid	263
IFITM5	Mucinous Adenocarcinoma of the Colon and Rectum	D2N	Missense	Diploid	9586
IFITM5	Rectal Adenocarcinoma	P32L	Missense	Diploid	102
IFITM5	Rectal Adenocarcinoma	D65G	Missense	Diploid	82
IFITM5	Stomach Adenocarcinoma	K62R	Missense	Diploid	828
IFITM5	Uterine Endometrioid Carcinoma	K116T	Missense	Diploid	8968
IFITM5	Uterine Endometrioid Carcinoma	M1?	Nonstart	Diploid	6849
IFITM5	Uterine Endometrioid Carcinoma	P32Rfs*6	FS del	Diploid	669
IFITM5	Uterine Endometrioid Carcinoma	L45F	Missense	Diploid	579
IFITM5	Uterine Endometrioid Carcinoma	L103Wfs*3	FS del	Diploid	739
IFITM5	Uterine Endometrioid Carcinoma	R11Q	Missense	Diploid	435
IFITM5	Uterine Endometrioid Carcinoma	R64Q	Missense	Diploid	13865
IFITM10	Breast Invasive Lobular Carcinoma	X180_splice	Splice	Gain	70
IFITM10	Breast Invasive Lobular Carcinoma	Y228del	IF del	Gain	56
IFITM10	Breast Invasive Ductal Carcinoma	IFITM10-DENND5A	Fusion	ShallowDel	69
IFITM10	Colon Adenocarcinoma	L185V	Missense	Diploid	716
IFITM10	Colon Adenocarcinoma	R6W	Missense	ShallowDel	132
IFITM10	Serous Ovarian Cancer	IFITM10-CFL1	Fusion	Gain	55

Supplementary Tables

IFITM10	Uterine Endometrioid Carcinoma	R222W	Missense	Diploid	10939
IFITM10	Uterine Endometrioid Carcinoma	V193M	Missense	Diploid	219
IFITM10	Uterine Endometrioid Carcinoma	V217I	Missense	Diploid	12211
IFITM10	Uterine Endometrioid Carcinoma	L186I	Missense	Diploid	7385

Supplementary Tables

Supplementary Table S2. Prediction of targeted miRNAs of IFITMs by miRWalk

Gene	total	miRNA
IFITM2 IFITM3 IFITM5	1	hsa-miR-675-5p
IFITM2 IFITM3 IFITM10	1	hsa-miR-6860
		hsa-miR-2861
		hsa-miR-3907
		hsa-miR-6763-5p
		hsa-miR-4463
		hsa-miR-6895-5p
		hsa-miR-4476
IFITM5 IFITM10	13	hsa-miR-6757-5p
		hsa-miR-345-5p
		hsa-miR-7114-5p
		hsa-miR-659-3p
		hsa-miR-4633-3p
		hsa-miR-5093
		hsa-miR-6792-5p
IFITM3 IFITM5	1	hsa-miR-4736
		hsa-miR-3124-5p
IFITM2 IFITM10	3	hsa-miR-4519
		hsa-miR-217-5p
IFITM3 IFITM10	3	hsa-miR-29b-2-5p

Supplementary Tables

		hsa-miR-1539
		hsa-miR-5008-3p
IFITM2 IFITM3	1	0

Supplementary Tables

Supplementary Table 3. Prediction of targeted circRNAs of IFITMs by circBbank

MiRNA	CircRNA
hsa-miR-29b-2-5p	hsa_circ_0116375
hsa-miR-4418	hsa_circ_0116375
hsa-miR-4463	hsa_circ_0116375
hsa-miR-4519	hsa_circ_0116375
hsa-miR-5093	hsa_circ_0116375
hsa-miR-6860	hsa_circ_0116375
hsa-miR-6895-5p	hsa_circ_0116375
hsa-miR-2861	hsa_circ_0000699
hsa-miR-345-5p	hsa_circ_0000699
hsa-miR-4463	hsa_circ_0000699
hsa-miR-5008-3p	hsa_circ_0000699
hsa-miR-6763-5p	hsa_circ_0000699
hsa-miR-6895-5p	hsa_circ_0000699
hsa-miR-29b-2-5p	hsa_circ_0047301
hsa-miR-4418	hsa_circ_0047301
hsa-miR-5008-3p	hsa_circ_0047301
hsa-miR-6763-5p	hsa_circ_0047301
hsa-miR-7114-5p	hsa_circ_0047301
hsa-miR-29b-2-5p	hsa_circ_0079434

Supplementary Tables

hsa-miR-3907	hsa_circ_0079434
hsa-miR-4418	hsa_circ_0079434
hsa-miR-659-3p	hsa_circ_0079434
hsa-miR-7114-5p	hsa_circ_0079434
hsa-miR-2861	hsa_circ_0047885
hsa-miR-4418	hsa_circ_0047885
hsa-miR-4476	hsa_circ_0047885
hsa-miR-6763-5p	hsa_circ_0047885
hsa-miR-6860	hsa_circ_0047885
hsa-miR-4418	hsa_circ_0094183
hsa-miR-4476	hsa_circ_0094183
hsa-miR-5093	hsa_circ_0094183
hsa-miR-6757-5p	hsa_circ_0094183
hsa-miR-6860	hsa_circ_0094183
hsa-miR-2861	hsa_circ_0007132
hsa-miR-3907	hsa_circ_0007132
hsa-miR-4736	hsa_circ_0007132
hsa-miR-5093	hsa_circ_0007132
hsa-miR-6860	hsa_circ_0007132
hsa-miR-5093	hsa_circ_0074508
hsa-miR-6757-5p	hsa_circ_0074508
hsa-miR-6860	hsa_circ_0074508
hsa-miR-6895-5p	hsa_circ_0074508

Supplementary Tables

hsa-miR-7114-5p	hsa_circ_0074508
hsa-miR-3907	hsa_circ_0060918
hsa-miR-4418	hsa_circ_0060918
hsa-miR-4519	hsa_circ_0060918
hsa-miR-659-3p	hsa_circ_0060918
hsa-miR-6792-5p	hsa_circ_0060918