

Supplementary table 1A: Clinical & histopathological data for 59 samples used for miRNA expression profiling

Used for recurrence classification analysis	Material	Sample ID	Location	Age §	Gender	MSS/MSI status	Histological type	Grade	pT	pN	UICC stage	Follow-Up time until distant recurrence (months)*	Recurrence Censored (1=recur, 0=non-recur)**	Survival (months)	Survival Censored (1=dead, 0=alive)
yes	Tumor	R111	colon	37	m	MSS	AC	2	4	0	2	5	1	14	1
yes	Tumor	R047	colon	58	m	MSS	AC	2	3	0	2	6	1	6	0
yes	Tumor	R093	colon	57	f	MSS	AC	2	4	0	2	10	1	30	1
yes	Tumor	R080	colon	69	m	MSS	AC	2	4	0	2	10	1	16	1
yes	Tumor	R083	colon	67	f	MSS	AC	2	4	0	2	11	1	25	1
yes	Tumor	R151	colon	67	f	MSS	AC	2	3	0	2	12	1	12	0
	Tumor	R089	colon	79	m	MSS	AC	2	4	0	2	13	0	13	1
yes	Tumor	R072	colon	36	f	MSS	AC	3	4	0	2	15	1	15	0
yes	Tumor	R102	colon	81	m	MSS	AC	3	4	0	2	19	1	46	1
yes	Tumor	R013	colon	65	m	MSS	AC	2	3	0	2	19	1	19	0
yes	Tumor	R123	colon	44	m	MSS	AC	2	4	0	2	24	1	29	1
	Tumor	R002	colon	70	f	MSI	MAC	1	3	0	2	32	1	32	0
	Tumor	R077	colon	39	m	MSI	AC	1	4	0	2	42	1	42	0
yes	Tumor	R087	colon	79	m	MSS	AC	0	3	0	2	43	1	62	1
	Tumor	R094	colon	75	m	MSS	AC	3	4	0	2	44	0	44	1
	Tumor	R079	colon	65	m	MSS	AC	NA	4	0	2	46	0	46	1
yes	Tumor	R351-2	colon	81	f	MSS	AC	1	3	0	2	51	1	51	0
	Tumor	R010	colon	61	f	MSI	AC	2	3	0	2	52	0	83	0
yes	Tumor	R025	colon	80	f	MSS	AC	2	3	0	2	53	0	70	0
	Tumor	R021	colon	81	m	MSI	AC	2	3	0	2	53	0	73	0
yes	Tumor	R152	colon	70	f	MSS	AC	2	3	0	2	53	1	53	0
yes	Tumor	R005	colon	72	m	MSS	AC	1	3	0	2	56	0	93	0
yes	Tumor	R003	colon	56	m	MSS	AC	3	4	0	2	60	0	93	0
	Tumor	R135	colon	80	m	MSS	AC	2	3	0	2	61	1	61	0
	Tumor	R056	colon	87	f	MSI	AC	3	4	0	2	62	0	62	1
	Tumor	R016	colon	58	m	MSI	AC	1	3	0	2	64	0	90	0
	Tumor	R018	colon	84	m	MSI	MAC	3	4	0	2	67	0	81	1
	Tumor	R020	colon	67	m	MSI	AC	2	3	0	2	67	1	67	0
	Tumor	R073	colon	73	f	MSI	AC	3	3	0	2	68	0	68	0
yes	Tumor	R024	colon	78	m	MSS	AC	2	3	0	2	70	0	73	0

yes	Tumor	R160	colon	86	f	MSS	AC	2	3	0	2	71	0	71	0
yes	Tumor	R078	colon	68	m	MSS	AC	2	3	0	2	75	0	75	0
yes	Tumor	R098	colon	69	f	MSS	AC	3	4	0	2	75	0	75	0
yes	Tumor	R082	colon	46	f	MSS	AC	2	4	0	2	77	0	77	0
yes	Tumor	R158	colon	67	m	MSS	AC	2	4	0	2	77	0	77	0
	Tumor	R168	colon	67	f	MSS	AC	2	3	0	2	80	1	83	1
	Tumor	R141	colon	50	m	MSS	AC	2	3	0	2	80	1	80	0
	Tumor	R023	colon	69	f	MSI	AC	2	3	0	2	87	0	87	0
	Tumor	R009	colon	79	f	MSI	AC	1	3	0	2	89	0	89	1
yes	Tumor	R004	colon	64	m	MSS	AC	2	3	0	2	95	0	95	0
yes	Tumor	R095	colon	66	m	MSS	AC	1	4	0	2	95	0	95	0
yes	Tumor	R162	colon	47	f	MSS	AC	2	3	0	2	95	0	95	0
yes	Tumor	R085	colon	83	m	MSS	AC	2	3	0	2	104	0	104	0
yes	Tumor	R086	colon	56	f	MSS	AC	2	4	0	2	104	0	104	0
	Tumor	R040	colon	52	m	MSI	AC	3	3	0	2	111	0	111	0
yes	Tumor	R097	colon	56	f	MSS	AC	2	4	0	2	117	0	117	0
yes	Tumor	R007	colon	63	f	MSS	AC	2	3	0	2	132	0	132	0
yes	Tumor	R006	colon	58	m	MSS	AC	3	3	0	2	135	0	135	0
yes	Tumor	R088	colon	56	f	MSS	AC	2	4	0	2	148	0	148	0
	Normal	A096-01	colon	60	m	-	-	-	-	-	-	-	-	-	-
	Normal	A096-02	colon	69	m	-	-	-	-	-	-	-	-	-	-
	Normal	A096-03	colon	72	f	-	-	-	-	-	-	-	-	-	-
	Normal	A096-04	colon	58	m	-	-	-	-	-	-	-	-	-	-
	Normal	A096-05	colon	61	m	-	-	-	-	-	-	-	-	-	-
	Normal	A096-06	colon	73	m	-	-	-	-	-	-	-	-	-	-
	Normal	A096-07	colon	83	m	-	-	-	-	-	-	-	-	-	-
	Normal	A096-08	colon	52	m	-	-	-	-	-	-	-	-	-	-
	Normal	A096-09	colon	61	m	-	-	-	-	-	-	-	-	-	-
	Normal	A096-10	colon	85	f	-	-	-	-	-	-	-	-	-	-

Abbreviations: m=male, f=female, MSS=microsatellite stable, MSI= microsatellite unstable, AC=adenocarcinoma, MAC=mucinous adenocarcinoma, NA=not available/applicable

§ Age at time of surgery

* follow-up time until distant metastasis, or the present follow-up for cases where matastasis has not yet occurred - see the recurrence censored column.

**recurrence=histopathological verified recurrence to the liver and/or lung

Supplementary table 1B: Histopathological data for the samples used for *in situ* hybridization

Patient ID	Location	Age §	Gender	MSS/MSI status	Histological type	Grade	pT	pN	UICC stage	Used for miR-145 ISH	Used for miR-320 ISH
155	Rectum	84	f	Unknown	AC	2	3	0	1	yes	yes
177	Colon	87	m	Unknown	AC	3	3	0	1	yes	yes
326	Colon	89	m	MSS	AC	3	3	1	2	yes	no
497	Colon	85	f	MSS	AC	2	3	0	1	yes	no
1011	Colon	68	f	Unknown	AC	2	3	0	1	no	yes
1075	Colon	57	m	Unknown	AC	3	3	0	1	yes	yes

Abbreviations: m=male, f=female, MSS=microsatellite stable, MSI= microsatellite unstable, AC=adenocarcinoma

§ Age at time of surgery

Supplementary table 2: Differentially expressed miRNAs identified by Significance Analysis of Microarrays (SAM)

Differentially expressed miRNAs identified by Significance of Microarray analysis (SAM). The cutoff, delta value, was adjusted so as to set the median number of falsely significant genes to < 0.00001 resulting in a median false discovery rate (FDR) < 0,0001%.

All fold changes are calculated as the median log₂ fold change between the groups compared. Up- or down-regulation is stated as miRNA expression in cancer relative to normal, or recurrence relative to non-recurrence, or MSS relative to MSI.

Normal vs MSI comparison

miRNA	Regulation	Fold (log ₂)
hsa-miR-145	down	-1.9
hsa-miR-455	down	-1.3
hsa-miR-484	down	-1.2
hsa-miR-101	down	-1.0
hsa-miR-30b	down	-0.7
hsa-miR-26b	down	-0.7
hsa-miR-422b	down	-0.5
hsa-miR-492	up	1.2
hsa-miR-20a	up	1.1
hsa-miR-432*	up	1.1
hsa-miR-21	up	1.0
hsa-miR-27b	up	0.9
hsa-miR-510	up	0.9
hsa-miR-92	up	0.7
hsa-miR-513	up	0.7
hsa-miR-526c	up	0.7
hsa-miR-527	up	0.7
hsa-miR-373*	up	0.6
hsa-miR-223	up	0.6
hsa-miR-320	up	0.6
hsa-miR-200a*	up	0.6
hsa-miR-191*	up	0.5
hsa-miR-302a	up	0.5
hsa-miR-181b	up	0.3
hsa-miR-512-5p	up	0.3

Normal vs MSS comparison

miRNA	Regulation	Fold (log ₂)
hsa-miR-142-3p	down	-2.4

hsa-miR-212	down	-2.3
hsa-miR-146b	down	-1.9
hsa-miR-217	down	-1.7
hsa-miR-144	down	-1.7
hsa-miR-145	down	-1.6
hsa-miR-455	down	-1.5
hsa-miR-192	down	-1.5
hsa-miR-29b	down	-1.4
hsa-miR-151	down	-1.4
hsa-miR-202*	down	-1.4
hsa-miR-101	down	-1.2
hsa-miR-484	down	-1.2
hsa-miR-215	down	-1.2
hsa-miR-33	down	-1.1
hsa-miR-451	down	-1.1
hsa-miR-141	down	-0.9
hsa-miR-453	down	-0.8
hsa-miR-194	down	-0.8
hsa-miR-30b	down	-0.8
hsa-miR-29a	down	-0.7
hsa-miR-26b	down	-0.7
hsa-miR-203	down	-0.6
hsa-miR-519e	down	-0.6
hsa-miR-30d	down	-0.6
hsa-miR-30a-5p	down	-0.6
hsa-miR-487a	down	-0.6
hsa-miR-143	down	-0.5
hsa-miR-146a	down	-0.5
hsa-miR-20a	up	1.6
hsa-miR-510	up	1.5
hsa-miR-92	up	1.3
hsa-miR-513	up	1.2
hsa-miR-526c	up	1.0
hsa-miR-320	up	1.0
hsa-miR-527	up	0.9
hsa-miR-370	up	0.8

hsa-miR-483	up	0.8
hsa-miR-432*	up	0.8
hsa-miR-496	up	0.8
hsa-miR-512-5p	up	0.8
hsa-miR-324-3p	up	0.8
hsa-miR-184	up	0.7
hsa-miR-200a*	up	0.7
hsa-miR-198	up	0.7
hsa-miR-185	up	0.7
hsa-miR-129	up	0.7
hsa-miR-191*	up	0.7
hsa-miR-492	up	0.7
hsa-miR-520d*	up	0.7
hsa-miR-302a	up	0.6
hsa-miR-498	up	0.6
hsa-miR-138	up	0.5
hsa-miR-95	up	0.4

miRNAs dysregulated in both MSI & MSS

miRNA	Regulation	Norm vs MSI&MSS Fold (log2)	Norm vs MSI Fold (log2)	Norm vs MSS Fold (log2)
hsa-miR-145	down	-1.7	-1.9	-1.6
hsa-miR-455	down	-1.4	-1.3	-1.5
hsa-miR-484	down	-1.2	-1.2	-1.2
hsa-miR-101	down	-1.1	-1.0	-1.2
hsa-miR-30b	down	-0.8	-0.7	-0.8
hsa-miR-26b	down	-0.7	-0.7	-0.7
hsa-miR-20a	up	1.4	1.1	1.6
hsa-miR-510	up	1.3	0.9	1.5
hsa-miR-92	up	1.0	0.7	1.3

hsa-miR-513	up	1.0	0.7	1.2
hsa-miR-526c	up	1.0	0.7	1.0
hsa-miR-320	up	0.8	0.6	1.0
hsa-miR-527	up	0.8	0.7	0.9
hsa-miR-432*	up	0.8	1.1	0.8
hsa-miR-492	up	0.8	1.2	0.7
hsa-miR-200a*	up	0.7	0.6	0.7
hsa-miR-191*	up	0.7	0.5	0.7
hsa-miR-302a	up	0.6	0.5	0.6
hsa-miR-512-5p	up	0.6	0.3	0.8

miRNAs only dysregulated in MSI (not in MSS)

miRNA	Regulation	Fold (log2)
hsa-miR-422b	down	-0.5
hsa-miR-21	up	1.0
hsa-miR-27b	up	0.9
hsa-miR-373*	up	0.6
hsa-miR-223	up	0.6
hsa-miR-181b	up	0.3

miRNAs only dysregulated in MSS (not in MSI)

miRNA	Regulation	Fold (log2)
hsa-miR-142-3p	down	-2.4
hsa-miR-212	down	-2.3
hsa-miR-146b	down	-1.9
hsa-miR-217	down	-1.7
hsa-miR-144	down	-1.7
hsa-miR-192	down	-1.5
hsa-miR-29b	down	-1.4
hsa-miR-151	down	-1.4
hsa-miR-202*	down	-1.4
hsa-miR-215	down	-1.2
hsa-miR-33	down	-1.1
hsa-miR-451	down	-1.1
hsa-miR-141	down	-0.9
hsa-miR-453	down	-0.8

hsa-miR-194	down	-0.8
hsa-miR-29a	down	-0.7
hsa-miR-203	down	-0.6
hsa-miR-519e	down	-0.6
hsa-miR-30d	down	-0.6
hsa-miR-30a-5p	down	-0.6
hsa-miR-487a	down	-0.6
hsa-miR-143	down	-0.5
hsa-miR-146a	down	-0.5
hsa-miR-370	up	0.8
hsa-miR-483	up	0.8
hsa-miR-496	up	0.8
hsa-miR-324-3p	up	0.8
hsa-miR-184	up	0.7
hsa-miR-198	up	0.7
hsa-miR-185	up	0.7
hsa-miR-129	up	0.7
hsa-miR-520d*	up	0.7
hsa-miR-498	up	0.6
hsa-miR-138	up	0.5
hsa-miR-95	up	0.4

MSS: Recurrence vs non-recurrence comparison

miRNA	Regulation	Fold (log2)
hsa-let-7d	up	0.7
hsa-let-7b	up	0.7
hsa-miR-126	up	0.5
hsa-miR-1	up	0.5
hsa-miR-320	down	-1.1
hsa-miR-498	down	-0.7
hsa-miR-492	down	-0.7
hsa-miR-526c	down	-0.7
hsa-miR-503	down	-0.7
hsa-miR-373*	down	-0.7
hsa-miR-302a	down	-0.5
hsa-miR-490	down	-0.4

MSS vs MSI comparison

miRNA	Regulation	Fold (log2)
hsa-miR-212	down	-2.3
hsa-miR-142-3p	down	-2.1
hsa-miR-144	down	-1.5
hsa-miR-151	down	-1.4
hsa-miR-141	down	-1.0
hsa-miR-21	down	-1.0
hsa-miR-200a	down	-0.9
hsa-miR-203	down	-0.8
hsa-miR-142-5p	down	-0.7
hsa-miR-519e	down	-0.5
hsa-miR-425-3p	down	-0.5

Supplementary table 1A: Clinical & histopathological data for 59 samples used for miRNA expression profiling

Used for recurrence classification analysis	Material	Sample ID	Location	Age §	Gender	MSS/MSI status	Histological type	Grade	pT	pN	UICC stage	Follow-Up time until distant recurrence (months)*	Recurrence Censored (1=recur, 0=non-recur)**	Survival (months)	Survival Censored (1=dead, 0=alive)
yes	Tumor	R111	colon	37	m	MSS	AC	2	4	0	2	5	1	14	1
yes	Tumor	R047	colon	58	m	MSS	AC	2	3	0	2	6	1	6	0
yes	Tumor	R093	colon	57	f	MSS	AC	2	4	0	2	10	1	30	1
yes	Tumor	R080	colon	69	m	MSS	AC	2	4	0	2	10	1	16	1
yes	Tumor	R083	colon	67	f	MSS	AC	2	4	0	2	11	1	25	1
yes	Tumor	R151	colon	67	f	MSS	AC	2	3	0	2	12	1	12	0
	Tumor	R089	colon	79	m	MSS	AC	2	4	0	2	13	0	13	1
yes	Tumor	R072	colon	36	f	MSS	AC	3	4	0	2	15	1	15	0
yes	Tumor	R102	colon	81	m	MSS	AC	3	4	0	2	19	1	46	1
yes	Tumor	R013	colon	65	m	MSS	AC	2	3	0	2	19	1	19	0
yes	Tumor	R123	colon	44	m	MSS	AC	2	4	0	2	24	1	29	1
	Tumor	R002	colon	70	f	MSI	MAC	1	3	0	2	32	1	32	0
	Tumor	R077	colon	39	m	MSI	AC	1	4	0	2	42	1	42	0
yes	Tumor	R087	colon	79	m	MSS	AC	0	3	0	2	43	1	62	1
	Tumor	R094	colon	75	m	MSS	AC	3	4	0	2	44	0	44	1
	Tumor	R079	colon	65	m	MSS	AC	NA	4	0	2	46	0	46	1
yes	Tumor	R351-2	colon	81	f	MSS	AC	1	3	0	2	51	1	51	0
	Tumor	R010	colon	61	f	MSI	AC	2	3	0	2	52	0	83	0
yes	Tumor	R025	colon	80	f	MSS	AC	2	3	0	2	53	0	70	0
	Tumor	R021	colon	81	m	MSI	AC	2	3	0	2	53	0	73	0
yes	Tumor	R152	colon	70	f	MSS	AC	2	3	0	2	53	1	53	0
yes	Tumor	R005	colon	72	m	MSS	AC	1	3	0	2	56	0	93	0
yes	Tumor	R003	colon	56	m	MSS	AC	3	4	0	2	60	0	93	0
	Tumor	R135	colon	80	m	MSS	AC	2	3	0	2	61	1	61	0
	Tumor	R056	colon	87	f	MSI	AC	3	4	0	2	62	0	62	1
	Tumor	R016	colon	58	m	MSI	AC	1	3	0	2	64	0	90	0
	Tumor	R018	colon	84	m	MSI	MAC	3	4	0	2	67	0	81	1
	Tumor	R020	colon	67	m	MSI	AC	2	3	0	2	67	1	67	0
	Tumor	R073	colon	73	f	MSI	AC	3	3	0	2	68	0	68	0
yes	Tumor	R024	colon	78	m	MSS	AC	2	3	0	2	70	0	73	0

yes	Tumor	R160	colon	86	f	MSS	AC	2	3	0	2	71	0	71	0
yes	Tumor	R078	colon	68	m	MSS	AC	2	3	0	2	75	0	75	0
yes	Tumor	R098	colon	69	f	MSS	AC	3	4	0	2	75	0	75	0
yes	Tumor	R082	colon	46	f	MSS	AC	2	4	0	2	77	0	77	0
yes	Tumor	R158	colon	67	m	MSS	AC	2	4	0	2	77	0	77	0
	Tumor	R168	colon	67	f	MSS	AC	2	3	0	2	80	1	83	1
	Tumor	R141	colon	50	m	MSS	AC	2	3	0	2	80	1	80	0
	Tumor	R023	colon	69	f	MSI	AC	2	3	0	2	87	0	87	0
	Tumor	R009	colon	79	f	MSI	AC	1	3	0	2	89	0	89	1
yes	Tumor	R004	colon	64	m	MSS	AC	2	3	0	2	95	0	95	0
yes	Tumor	R095	colon	66	m	MSS	AC	1	4	0	2	95	0	95	0
yes	Tumor	R162	colon	47	f	MSS	AC	2	3	0	2	95	0	95	0
yes	Tumor	R085	colon	83	m	MSS	AC	2	3	0	2	104	0	104	0
yes	Tumor	R086	colon	56	f	MSS	AC	2	4	0	2	104	0	104	0
	Tumor	R040	colon	52	m	MSI	AC	3	3	0	2	111	0	111	0
yes	Tumor	R097	colon	56	f	MSS	AC	2	4	0	2	117	0	117	0
yes	Tumor	R007	colon	63	f	MSS	AC	2	3	0	2	132	0	132	0
yes	Tumor	R006	colon	58	m	MSS	AC	3	3	0	2	135	0	135	0
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	Normal	A096-02	colon	69	m	-	-	-	-	-	-	-	-	-	-
	Normal	A096-03	colon	72	f	-	-	-	-	-	-	-	-	-	-
	Normal	A096-04	colon	58	m	-	-	-	-	-	-	-	-	-	-
	Normal	A096-05	colon	61	m	-	-	-	-	-	-	-	-	-	-
	Normal	A096-06	colon	73	m	-	-	-	-	-	-	-	-	-	-
	Normal	A096-07	colon	83	m	-	-	-	-	-	-	-	-	-	-
	Normal	A096-08	colon	52	m	-	-	-	-	-	-	-	-	-	-
	Normal	A096-09	colon	61	m	-	-	-	-	-	-	-	-	-	-
	Normal	A096-10	colon	85	f	-	-	-	-	-	-	-	-	-	-

Abbreviations: m=male, f=female, MSS=microsatellite stable, MSI= microsatellite unstable, AC=adenocarcinoma, MAC=mucinous adenocarcinoma, NA=not available/applicable

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177	Colon	87	m	Unknown	AC	3	3	0	1	yes	yes
326	Colon	89	m	MSS	AC	3	3	1	2	yes	no
497	Colon	85	f	MSS	AC	2	3	0	1	yes	no
1011	Colon	68	f	Unknown	AC	2	3	0	1	no	yes
1075	Colon	57	m	Unknown	AC	3	3	0	1	yes	yes

Abbreviations: m=male, f=female, MSS=microsatellite stable, MSI= microsatellite unstable, AC=adenocarcinoma

§ Age at time of surgery

List of the optimal number of discriminator miRNAs used for classification as identified by using the Prophet tool (www.gepas.org). miRNAs are ranked according to the F ratio (between-group to within-group sums of squares).

Supplementary table 4: miRNAs used in predictive signatures

miRNAs used for prediction of recurrence status

hsa-miR-498
hsa-miR-320
hsa-miR-526c
hsa-let-7d
hsa-miR-1
hsa-miR-492
hsa-miR-503
hsa-miR-490
hsa-let-7b
hsa-miR-126
hsa-miR-7
hsa-miR-373*
hsa-miR-23a
hsa-miR-450
hsa-miR-340
hsa-miR-146a
hsa-miR-126*

miRNAs used for prediction of microsatellite status

hsa-miR-142-3p
hsa-miR-212
hsa-miR-151
hsa-miR-144

Supplementary table 2: Differentially expressed miRNAs identified by Significance Analysis of Microarrays (SAM)

Differentially expressed miRNAs identified by Significance of Microarray analysis (SAM). The cutoff, delta value, was adjusted so as to set the median number of falsely significant genes to < 0.00001 resulting in a median false discovery rate (FDR) < 0,0001%.

All fold changes are calculated as the median log₂ fold change between the groups compared. Up- or down-regulation is stated as miRNA expression in cancer relative to normal, or recurrence relative to non-recurrence, or MSS relative to MSI.

Normal vs MSI comparison

miRNA	Regulation	Fold (log ₂)
hsa-miR-145	down	-1.9
hsa-miR-455	down	-1.3
hsa-miR-484	down	-1.2
hsa-miR-101	down	-1.0
hsa-miR-30b	down	-0.7
hsa-miR-26b	down	-0.7
hsa-miR-422b	down	-0.5
hsa-miR-492	up	1.2
hsa-miR-20a	up	1.1
hsa-miR-432*	up	1.1
hsa-miR-21	up	1.0
hsa-miR-27b	up	0.9
hsa-miR-510	up	0.9
hsa-miR-92	up	0.7
hsa-miR-513	up	0.7
hsa-miR-526c	up	0.7
hsa-miR-527	up	0.7
hsa-miR-373*	up	0.6
hsa-miR-223	up	0.6
hsa-miR-320	up	0.6
hsa-miR-200a*	up	0.6
hsa-miR-191*	up	0.5
hsa-miR-302a	up	0.5
hsa-miR-181b	up	0.3
hsa-miR-512-5p	up	0.3

Normal vs MSS comparison

miRNA	Regulation	Fold (log ₂)
hsa-miR-142-3p	down	-2.4

hsa-miR-212	down	-2.3
hsa-miR-146b	down	-1.9
hsa-miR-217	down	-1.7
hsa-miR-144	down	-1.7
hsa-miR-145	down	-1.6
hsa-miR-455	down	-1.5
hsa-miR-192	down	-1.5
hsa-miR-29b	down	-1.4
hsa-miR-151	down	-1.4
hsa-miR-202*	down	-1.4
hsa-miR-101	down	-1.2
hsa-miR-484	down	-1.2
hsa-miR-215	down	-1.2
hsa-miR-33	down	-1.1
hsa-miR-451	down	-1.1
hsa-miR-141	down	-0.9
hsa-miR-453	down	-0.8
hsa-miR-194	down	-0.8
hsa-miR-30b	down	-0.8
hsa-miR-29a	down	-0.7
hsa-miR-26b	down	-0.7
hsa-miR-203	down	-0.6
hsa-miR-519e	down	-0.6
hsa-miR-30d	down	-0.6
hsa-miR-30a-5p	down	-0.6
hsa-miR-487a	down	-0.6
hsa-miR-143	down	-0.5
hsa-miR-146a	down	-0.5
hsa-miR-20a	up	1.6
hsa-miR-510	up	1.5
hsa-miR-92	up	1.3
hsa-miR-513	up	1.2
hsa-miR-526c	up	1.0
hsa-miR-320	up	1.0
hsa-miR-527	up	0.9
hsa-miR-370	up	0.8

hsa-miR-483	up	0.8
hsa-miR-432*	up	0.8
hsa-miR-496	up	0.8
hsa-miR-512-5p	up	0.8
hsa-miR-324-3p	up	0.8
hsa-miR-184	up	0.7
hsa-miR-200a*	up	0.7
hsa-miR-198	up	0.7
hsa-miR-185	up	0.7
hsa-miR-129	up	0.7
hsa-miR-191*	up	0.7
hsa-miR-492	up	0.7
hsa-miR-520d*	up	0.7
hsa-miR-302a	up	0.6
hsa-miR-498	up	0.6
hsa-miR-138	up	0.5
hsa-miR-95	up	0.4

miRNAs dysregulated in both MSI & MSS

miRNA	Regulation	Norm vs MSI&MSS Fold (log2)	Norm vs MSI Fold (log2)	Norm vs MSS Fold (log2)
hsa-miR-145	down	-1.7	-1.9	-1.6
hsa-miR-455	down	-1.4	-1.3	-1.5
hsa-miR-484	down	-1.2	-1.2	-1.2
hsa-miR-101	down	-1.1	-1.0	-1.2
hsa-miR-30b	down	-0.8	-0.7	-0.8
hsa-miR-26b	down	-0.7	-0.7	-0.7
hsa-miR-20a	up	1.4	1.1	1.6
hsa-miR-510	up	1.3	0.9	1.5
hsa-miR-92	up	1.0	0.7	1.3

hsa-miR-513	up	1.0	0.7	1.2
hsa-miR-526c	up	1.0	0.7	1.0
hsa-miR-320	up	0.8	0.6	1.0
hsa-miR-527	up	0.8	0.7	0.9
hsa-miR-432*	up	0.8	1.1	0.8
hsa-miR-492	up	0.8	1.2	0.7
hsa-miR-200a*	up	0.7	0.6	0.7
hsa-miR-191*	up	0.7	0.5	0.7
hsa-miR-302a	up	0.6	0.5	0.6
hsa-miR-512-5p	up	0.6	0.3	0.8

miRNAs only dysregulated in MSI (not in MSS)

<u>miRNA</u>	<u>Regulation</u>	<u>Fold (log2)</u>
hsa-miR-422b	down	-0.5
hsa-miR-21	up	1.0
hsa-miR-27b	up	0.9
hsa-miR-373*	up	0.6
hsa-miR-223	up	0.6
hsa-miR-181b	up	0.3

miRNAs only dysregulated in MSS (not in MSI)

<u>miRNA</u>	<u>Regulation</u>	<u>Fold (log2)</u>
hsa-miR-142-3p	down	-2.4
hsa-miR-212	down	-2.3
hsa-miR-146b	down	-1.9
hsa-miR-217	down	-1.7
hsa-miR-144	down	-1.7
hsa-miR-192	down	-1.5
hsa-miR-29b	down	-1.4
hsa-miR-151	down	-1.4
hsa-miR-202*	down	-1.4
hsa-miR-215	down	-1.2
hsa-miR-33	down	-1.1
hsa-miR-451	down	-1.1
hsa-miR-141	down	-0.9
hsa-miR-453	down	-0.8

hsa-miR-194	down	-0.8
hsa-miR-29a	down	-0.7
hsa-miR-203	down	-0.6
hsa-miR-519e	down	-0.6
hsa-miR-30d	down	-0.6
hsa-miR-30a-5p	down	-0.6
hsa-miR-487a	down	-0.6
hsa-miR-143	down	-0.5
hsa-miR-146a	down	-0.5
hsa-miR-370	up	0.8
hsa-miR-483	up	0.8
hsa-miR-496	up	0.8
hsa-miR-324-3p	up	0.8
hsa-miR-184	up	0.7
hsa-miR-198	up	0.7
hsa-miR-185	up	0.7
hsa-miR-129	up	0.7
hsa-miR-520d*	up	0.7
hsa-miR-498	up	0.6
hsa-miR-138	up	0.5
hsa-miR-95	up	0.4

MSS: Recurrence vs non-recurrence comparison

miRNA	Regulation	Fold (log2)
hsa-let-7d	up	0.7
hsa-let-7b	up	0.7
hsa-miR-126	up	0.5
hsa-miR-1	up	0.5
hsa-miR-320	down	-1.1
hsa-miR-498	down	-0.7
hsa-miR-492	down	-0.7
hsa-miR-526c	down	-0.7
hsa-miR-503	down	-0.7
hsa-miR-373*	down	-0.7
hsa-miR-302a	down	-0.5
hsa-miR-490	down	-0.4

MSS vs MSI comparison

miRNA	Regulation	Fold (log2)
hsa-miR-212	down	-2.3
hsa-miR-142-3p	down	-2.1
hsa-miR-144	down	-1.5
hsa-miR-151	down	-1.4
hsa-miR-141	down	-1.0
hsa-miR-21	down	-1.0
hsa-miR-200a	down	-0.9
hsa-miR-203	down	-0.8
hsa-miR-142-5p	down	-0.7
hsa-miR-519e	down	-0.5
hsa-miR-425-3p	down	-0.5