

Supplementary data for
Determination of primary microRNA processing in clinical
samples by targeted pri-miR-sequencing

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Supplementary Table 1

Processing efficiency and RPKM for targeted enrichment of 32 pri-miRNAs determined in HeLa cells. Shown are also PE and RPKM for total chromatin-associated RNA from Conrad et al., 2014.

Supplementary Table 2

Processing efficiency for 277 pri-miRNAs as determined after targeted enrichment for 40 HCC samples (numbers 1-40) and 9 Normal Liver samples (NL1-NL9). Of the 277 pri-miRNAs targeted with the custom probe library 222 are detected in more than one sample.

Supplementary Table 3

Sequence of all probes used for target enrichment with two 3' and two 5' probes for most pri-miRNAs (except e.g. miR222-3p and miR34a-5p, where only one probe could be designed with sufficient predicted specificity).

id	HeLa rep A PE	HeLa rep B PE	Chr PE	RPKM rep A	RPKM rep B	RPKM Chr
hsa-let-7a-1	0.918	0.914	0.891	69440	69392	10
hsa-let-7a-3	0.880	0.903	0.838	30987	31968	6
hsa-let-7b	0.542	0.559	0.511	35302	37157	5
hsa-let-7d	0.537	0.514	0.474	45800	44049	8
hsa-let-7f-1	0.690	0.711	0.496	35952	36801	7
hsa-let-7i	0.315	0.323	0.000	38775	39170	8
hsa-mir-106b	0.760	0.753	0.872	46068	47108	11
hsa-mir-10b	0.963	0.976	0.697	822	981	0
hsa-mir-125a	0.950	0.907	0.801	6413	6176	1
hsa-mir-181a-1	0.958	0.956	0.966	19334	18507	4
hsa-mir-181b-1	0.080	0.068	-0.011	13024	12377	3
hsa-mir-197	0.181	0.176	0.108	12726	12403	2
hsa-mir-21	0.779	0.779	0.714	860460	863574	143
hsa-mir-218-1	0.736	0.669	1.000	493	640	0
hsa-mir-221	0.718	0.731	0.637	35602	36163	6
hsa-mir-222	0.910	0.911	0.962	27929	28834	4
hsa-mir-23a	0.398	0.387	0.374	24491	25706	4
hsa-mir-23b	0.710	0.718	0.697	47590	46287	5
hsa-mir-24-1	0.565	0.557	0.279	32836	33761	5
hsa-mir-24-2	0.224	0.182	0.000	13123	13955	2
hsa-mir-25	0.000	0.000	0.000	83006	84404	13
hsa-mir-27a	0.473	0.538	0.492	16042	17200	2
hsa-mir-27b	0.370	0.360	0.200	78551	77300	9
hsa-mir-28	0.377	0.414	0.535	6892	7154	1
hsa-mir-335	0.978	0.961	0.952	3964	3779	1
hsa-mir-374a	0.771	0.725	0.599	11815	11847	2
hsa-mir-378a	0.681	0.669	0.729	7731	7730	1
hsa-mir-423	0.906	0.898	0.889	91876	90122	10
hsa-mir-545	0.123	0.165	0.000	10696	10691	2
hsa-mir-652	0.770	0.780	0.954	5017	4849	1
hsa-mir-93	0.704	0.671	0.629	46760	46863	5
hsa-mir-99a	0.654	0.616	0.525	15642	16532	4

Chr data are from Conrad et al., 2014

PE - Processing Efficiency

RPKM - Reads Per Kilobase per Million reads