

Dated illustration of the Comparative analysis results between *MysiRNA-Designer*, *AsiDesigner*, *siDesign* and *RNAXs* against an experimentally verified dataset.

	Asi-designer	siDesign	RNAXs	MysiRNA	MysiRNA 93%		Asi-designer	siDesign	RNAXs	MysiRNA	MysiRNA 93%
	Bcl2						MYC				
TP	3	4	8	3	3	TP	3	3	12	2	1
FN	16	15	11	16	16	FN	19	19	10	20	21
TN	1852	1839	1571	1870	1885	TN	2248	2232	1856	2272	2299
FP	66	79	347	48	33	FP	80	96	472	56	29
Sensitivity	0.16	0.21	0.42	0.16	0.16	Sensitivity	0.14	0.14	0.55	0.09	0.05
Specificity	0.97	0.96	0.82	0.97	0.98	Specificity	0.97	0.96	0.80	0.98	0.99
	Hras1						Pcna				
TP	2	0	3	1	1	TP	3	7	13	8	6
FN	3	5	2	4	4	FN	20	16	10	15	17
TN	491	466	426	506	512	TN	1111	1116	897	1142	1154
FP	25	50	90	10	4	FP	77	72	291	46	34
Sensitivity	0.40	0.00	0.60	0.20	0.20	Sensitivity	0.13	0.30	0.57	0.35	0.26
Specificity	0.95	0.90	0.83	0.98	0.99	Specificity	0.94	0.94	0.76	0.96	0.97
	Kras						Rpa3				
TP	9	11	37	16	13	TP	0	1	2	0	0
FN	83	81	55	76	79	FN	3	2	1	3	3
TN	4306	4264	2975	4293	4383	TN	531	520	379	521	534
FP	215	257	1546	228	138	FP	26	37	178	36	23
Sensitivity	0.10	0.12	0.40	0.17	0.14	Sensitivity	0.00	0.33	0.67	0.00	0.00
Specificity	0.95	0.94	0.66	0.95	0.97	Specificity	0.95	0.93	0.68	0.94	0.96
	Mcl1						Trp53				
TP	6	5	29	12	7	TP	1	1	3	1	1
FN	40	41	17	34	39	FN	3	3	1	3	3
TN	3246	3219	2661	3287	3328	TN	1661	1679	1422	1697	1719
FP	157	184	742	116	75	FP	68	50	307	32	10
Sensitivity	0.13	0.11	0.63	0.26	0.15	Sensitivity	0.25	0.25	0.75	0.25	0.25
Specificity	0.95	0.95	0.78	0.97	0.98	Specificity	0.96	0.97	0.82	0.98	0.99
	Hmyc						Total				
TP	4	10	10	1	1	TP	31	42	117	44	33
FN	14	8	8	17	17	FN	201	190	115	188	199
TN	2211	2074	1881	2255	2276	TN	17657	17409	14068	17843	18090
FP	99	236	429	55	34	FP	813	1061	4402	627	380
Sensitivity	0.22	0.56	0.56	0.06	0.06	Sensitivity	0.13	0.18	0.50	0.19	0.14
Specificity	0.96	0.90	0.81	0.98	0.99	Specificity	0.95	0.94	0.76	0.97	0.98