

Peak Data											Normalized Peak Area						
No.	Label	Size	Ref. size	Size diff.	MRC size	Height	Width	Area	Peak Area	Ref. Mean	Ref. SD	Ref. Weigh	Position p-tel band	Dist. Ratio	1.0 in SD	1.0 low high	
64	-		62.12		64					0.740	0.130		64 nt				
70	-		67.96		70					0.733	0.341		70 nt				
76	-		73.59		76					0.807	0.333		76 nt				
82	-		79.77		82					1.720	0.170		82 nt				
Ctrl: Q-fragments					Mean						1.00		(CV:)				
2	2 a	91.64	91.48	0.16	94	1266	17.9*	22641	0.580	0.602	0.082	1.00	2q14 synt.	0.96	-0.3	.	
Ctrl: Synthetic control probe					Mean	1266	17.9	22641	0.580	0.602	0.082	1.00	(CV:)	0.96			
3	12 A	138.32	138.19	0.13	139	2490	19.0*	47289	1.212	1.227	0.049	1.29	66.8 12q14	0.99	-0.3	.	
5	3 A	156.71	156.56	0.15	157	2222	19.5	43418	1.113	1.094	0.080	0.71	99.8 3q12	1.02	0.2	.	
6	17 A	165.34	165.21	0.13	166	1374	20.0	27526	0.705	0.763	0.074	0.53	16.8 17p11.2	0.92	-0.8	-.	
7	18 A	174.92	174.74	0.18	175	1811	19.9	36092	0.925	0.887	0.042	1.11	55.7 18q21	1.04	0.9	.	
9	7 A	192.53	192.39	0.14	193	2052	21.2	43584	1.117	1.099	0.052	1.10	86-9 7q21	1.02	0.3	.	
11	10 A	209.75	209.66	0.09	211	1618	22.4	36203	0.928	0.930	0.063	0.77	1.45 10p15	1.00	0.0	.	
13	11 B	229.22	229.10	0.12	229	2150	22.5	48376	0.947	0.999	0.046	1.13	65.2 11q13	0.95	-1.1	-.	
15	21 B	246.74	246.59	0.15	247	1986	24.3	48212	0.943	0.897	0.063	0.74	14.67 21q11	1.05	0.7	-.	
16	18 B	254.14	254.05	0.09	256	2367	25.2	59575	1.166	1.139	0.047	1.27	75.32 18p11	1.02	0.6	.	
18	3 B	284.98	284.82	0.16	286	2570	25.3	65040	1.273	1.262	0.050	1.32	156.3 3q21	1.01	0.2	.	
20	13 B	311.17	311.02	0.15	310	1260	27.2	34328	0.672	0.702	0.034	1.07	110.6 13q34	0.96	-0.9	.	
21	8 C	321.05	320.89	0.16	319	1053	27.8	29255	0.855	0.838	0.038	1.14	141.9 8q24	1.02	0.5	.	
23	21 C	338.38	338.18	0.20	337	1006	30.5	30728	0.898	0.867	0.045	1.00	26.3 21q21	1.04	0.7	.	
25	2 C	353.61	353.60	0.01	355	1599	31.3	50086	1.464	1.443	0.063	1.20	71.5 2p24	1.01	0.3	.	
27	8 C	372.66	372.61	0.05	373	823	32.1	26420	0.772	0.830	0.046	0.94	38.4 8p11.2	0.93	-1.3	-.	
29	3 C	390.12	390.13	-0.01	391	1025	33.7	34542	1.010	1.023	0.058	0.92	10.2 3p26	0.99	-0.2	.	
31	2 D	406.88	407.05	-0.17	409	981	36.3	35649	1.073	1.077	0.064	0.87	55.2 2p14	1.00	-0.1	.	
33	8 D	424.37	424.53	-0.16	427	956	38.4*	36751	1.106	1.138	0.047	1.25	117.8 8q24	0.97	-0.7	.	
34	17 D	432.63	432.82	-0.19	436	994	39.3*	39021	1.174	1.170	0.061	0.99	35.0 17q12	1.00	0.1	.	
35	13 D	442.60	442.74	-0.14	445	761	40.2*	30592	0.921	0.872	0.053	0.86	110.2 13q34	1.06	0.9	-.	
37	12 D	460.80	460.88	-0.08	463	596	40.5	24148	0.727	0.744	0.047	0.82	120.9 12q24	0.98	-0.4	.	
Reference fragments					Mean	1509	28.4	39373	1.000	1.000	0.053	1.00	(CV: 0.03)	1.00			
4	5 a	147.58	147.41	0.17	148	1995	19.0	37941	0.972	0.959	0.064	1.00	31.3 CDH6-D01	1.01	0.2	.	
5p15.1-14					Mean	1995	19.0	37941	0.972	0.959	0.064	1.00	(CV:)	1.01			
10	5 a	201.02	200.92	0.10	202	1556	20.8	32380	0.830	0.772	0.066	1.00	68.7 RAD17-D02	1.07	0.9	-.	
Before SMN					Mean	1556	20.8	32380	0.830	0.772	0.066	1.00	(CV:)	1.07			
17	5 b	275.49	275.40	0.09	276	2556	25.1	64236	1.257	0.691	0.073	0.75	69.4 SMN2 ex 7	1.82	7.7*	.	
19	5 b	299.79	299.65	0.14	301	1413	27.1	38295	0.749	0.380	0.024	1.25	69.4 SMN2 ex 8	1.97	15.1*	.	
SMN2 >>>>>>>>>>>>					Mean	1985	26.1	51266	1.003	0.536	0.049	1.00	(CV: 0.05)	1.91			
14	5 b	237.01	236.89	0.12	238	1500	24.1	36143	0.707	0.710	0.121	1.00	70.3 BIRC1 ex 5	1.00	0.0	.	
Before SMN1					Mean	1500	24.1	36143	0.707	0.710	0.121	1.00	(CV:)	1.00			
38	5 b	0.00	269.10	-----	270	0	0.0	0	0.000	0.449	0.046	0.90	70.3 SMN1 ex 7	0.00	-9.9*	.	
39	5 b	0.00	293.39	-----	295	0	0.0	0	0.000	0.379	0.031	1.10	70.3 SMN1 ex 8	0.00	-12.1*	.	
SMN1 >>>>>>>>>>>>					Mean	0	0.0	0	0.000	0.414	0.038	1.00	(CV:)	0.00			
28	5 c	380.52	380.50	0.02	382	972	33.5	32550	0.952	0.785	0.129	0.47	70.3 SMN1/2 ex 1	1.21	1.3	-.	
30	5 d	398.63	398.62	0.01	400	1093	36.0	39396	1.185	1.168	0.069	1.31	70.3 SMN1/2 ex 4	1.02	0.3	.	
32	5 d	417.82	417.89	-0.07	418	975	36.8	35846	1.079	1.102	0.067	1.27	70.3 SMN1/2 ex 6	0.98	-0.4	.	
26	5 c	361.97	361.98	-0.01	364	1579	33.5	52821	1.544	1.385	0.113	0.94	70.3 SMN1/2 ex 8	1.12	1.4	-.	
SMN1/2 >>>>>>>>>>>>					Mean	1155	34.9	40153	1.190	1.110	0.094	1.00	(CV: 0.09)	1.05			
22	5 c	329.92	329.68	0.24	328	1259	29.0	36505	1.067	1.031	0.138	1.38	70.4 GTF2H2ex 4	1.03	0.3	.	
12	5 b	217.15	217.03	0.12	220	1453	21.6	31355	0.614	0.479	0.101	0.87	70.4 GTF2H2ex 7	1.28	1.3	-.	
8	5 a	185.10	184.89	0.21	184	1441	20.1	29013	0.744	0.825	0.200	0.76	70.4 GTF2H2ex10	0.90	-0.4	-.	
GTF2H2					Mean	1384	23.6	32291	0.808	0.779	0.146	1.00	(CV: 0.16)	1.07			
36	5 d	452.59	452.66	-0.07	454	1782	43.4*	77403	2.329	2.158	0.105	1.23	69.3 N-Cadherin-like	1.08	1.6	-.	
24	5 c	345.90	345.83	0.07	346	2121	30.4	64497	1.886	1.899	0.149	0.77	70.5 BIRC1 ex 13	0.99	-0.1	.	
SMN1/2 like					Mean	1952	36.9	70950	2.107	2.028	0.127	1.00	(CV: 0.06)	1.05			
Mean values				0.06					1443	27.0	38790	0.998	0.978	0.071	3	1.01	Total of all except
Standard deviations				0.11					(Coef. of variance: 0.398)	0.414	0.362					0.33	Ctrl and '?' peaks

Quality assessment	Quality limits	Quality
Not evaluated as < 2 Q-fragments	>0.65 (1.50)	
Mean height of first probes AB	> 450 (800)	1991
Mean height of last probes CD	> 280 (500)	979
Ratio of mean heights AB/CD ('slope')	<3.00 (2.50)	2.03
CV of Control Probes	<0.20 (0.15)	0.03
0 unidentified peak areas / 38 peak areas	< (0.02)	0.00

SMN1 and SMN2 peaks are assigned the nearest ploidy. Probe ratios close (±0.025) to 0.75 or to 1.25 are difficult. Difference to predicted SMN1/2 level should be inside ±0.125, or at least SMN1/2ex8 should be predicted well.

SMN1 to SMN2 copies look like 0:4 (exon 7) and 0:4 (exon 8)
0:4 and 0:4 for exon 7 & 8 predicts SMN1/2 to 1.00 diff.= 0.050

An *** marks: Size Diff.>0.5, Peak Height>7000, unexpected peak width, and "Dist. in SD">4.0.
Ratio group mean and coefficient of variance (CV) are weighted by the ref. weights
Labels A,B,... define normalization groups; a,b,... labeled probes do not contribute to normalization.
Mean Rox height is 117 (15 peaks). 100*CV of ROX heights for peaks above 100 nt is: 5.05

(Ctrl probes are used for quality evaluation only)