Case: Normal-male-example-1 Folder: P095-vs02-examples Date: 05-03-2009

P095-vs02 Aneuploidy MLPA kit (lot 0505) Male Reference: P095-vs02-t01 Ver.: 5.11

No.	Label	Size	Ref. size	Size diff.	MRC size	Peak Data Height	Width	Area	Normalized Peak Area: Peak Area	Ref. Mean	Ref. SD	Ref. Weigh	Position p-tel band	Ratio	Dist. in SD	1.0 low high
4	64 -	61.45	61.20	0.25	64	626	19.8	12393	0.941	0.897	0.243	0.68	64 nt	1.05	0.2	·
5	70 -	67.05	66.91	0.14	70	575	17.1	9847	0.748	0.751	0.145	0.96	70 nt	1.00	0.0	·
6	76 -	72.63	72.54	0.09	76	672	21.4	14410	1.095	1.111	0.183	1.12	76 nt	0.99	-0.1	·
7	82 -	78.37	78.43	-0.06	82	956	16.7	16007	1.216	1.241	0.185	1.24	82 nt	0.98	-0.1	·
Ctrl: Q-fragments					Mean	707	18.8	13164	1.000	1.000	0.189	1.00	(CV: **0.03**)	**1.00**		
9	2 A	90.25	90.17	0.08	94	3617	9.6	34762	0.795	0.993	0.108	1.00	2q14 synt.	0.80	-1.8	‖·
Synthetic control probe					Mean	3617	9.6	34762	0.795	0.993	0.108	1.00	(CV:)	**0.80**		
13	13 A	146.00	145.92	0.08	148	6675	9.3	62360	1.426	1.437	0.075	1.29	13q32.1	0.99	-0.1	·
18	13 A	177.37	177.35	0.02	178	4145	9.6	39718	0.908	0.990	0.072	0.92	13q13.3	0.92	-1.1	| ·
23	13 B	218.89	218.82	0.07	220	6846	9.9	67643	1.434	1.332	0.076	1.18	13q14.2	1.08	1.3	· |
28	13 B	262.59	262.45	0.14	265	4544	9.9	44944	0.953	0.951	0.069	0.92	13q21.33	1.00	0.0	·
33	13 C	310.11	309.93	0.18	310	3994	10.4	41610	1.257	1.315	0.084	1.05	13q34	0.96	-0.7	·
37	13 C	355.23	355.19	0.04	355	3512	11.9	41955	1.267	1.209	0.069	1.18	13q13.1	1.05	0.8	·
41	13 D	398.38	398.39	-0.01	400	4097	11.6	47687	1.322	1.278	0.110	0.78	13q14.2	1.03	0.4	·
45	13 D	442.50	442.59	-0.09	445	2865	12.0	34462	0.955	0.990	0.097	0.68	13q34	0.97	-0.4	·
Chromosome 13					Mean	4585	10.6	47547	1.190	1.188	0.081	1.00	(CV: **0.05**)	**1.00**		
12	18 A	140.06	140.07	-0.01	142	6977	9.6	67204	1.537	1.531	0.090	1.13	18q21.1	1.00	0.1	·
17	18 A	170.83	170.78	0.05	172	5368	9.6	51489	1.177	1.112	0.083	0.90	18q21.32	1.06	0.8	· |
22	18 B	209.98	209.88	0.10	211	5634	9.8	55217	1.170	1.191	0.072	1.10	18q11.2	0.98	-0.3	·
27	18 B	252.94	252.77	0.17	256	7215 *	10.1	73146	1.550	1.489	0.074	1.35	18q23	1.04	0.8	·
32	18 C	299.00	298.88	0.12	301	3660	10.7	39037	1.179	1.238	0.088	0.93	18p11.32	0.95	-0.7	·
36	18 C	346.31	346.18	0.13	346	2301	11.1	25446	0.768	0.680	0.058	0.79	18q21.33	1.13	1.5	· |
40	18 D	389.95	389.97	-0.02	391	4895	11.5	56188	1.558	1.473	0.094	1.04	18q11.2	1.06	0.9	· |
44	18 D	433.86	433.86	0.00	436	3308	11.8	39096	1.084	1.140	0.099	0.76	18p11.21	0.95	-0.6	·
Chromosome 18					Mean	4920	10.5	50853	1.253	1.232	0.082	1.00	(CV: **0.06**)	**1.02**		
11	21 A	132.97	132.90	0.07	136	6701	10.0	66748	1.526	1.526	0.080	1.23	21q22.13	1.00	0.0	·
16	21 A	164.60	164.56	0.04	166	5703	9.6	54976	1.257	1.248	0.081	1.00	21q21.1	1.01	0.1	·
21	21 B	200.90	200.81	0.09	202	5902	9.6	56629	1.200	1.272	0.082	1.00	21q21.1	0.94	-0.9	| ·
26	21 B	245.43	245.33	0.10	247	4667	10.4	48521	1.028	1.048	0.048	1.40	21q11.2	0.98	-0.4	·
31	21 C	289.26	289.12	0.14	292	3723	10.3	38325	1.157	1.167	0.072	1.04	21q22.11	0.99	-0.1	·
35	21 C	337.63	337.42	0.21	337	2887	11.1	32047	0.968	1.008	0.094	0.69	21q21.3	0.96	-0.4	·
39	21 D	381.48	381.44	0.04	382	3313	11.2	37259	1.033	1.051	0.078	0.87	21q22.3	0.98	-0.2	·
43	21 D	424.61	424.65	-0.04	427	3068	12.0	36763	1.019	1.005	0.083	0.78	21q22.11	1.01	0.2	·
Chromosome 21					Mean	4496	10.5	46409	1.149	1.166	0.077	1.00	(CV: **0.02**)	**0.99**		
14	X A	152.83	152.75	0.08	154	3201	9.4	29962	0.685	0.624	0.047	1.17	Xq12	1.10	1.3	· |
19	X A	183.66	183.64	0.02	184	2386	9.7	23155	0.529	0.504	0.048	0.94	Xq23	1.05	0.5	· |
24	X B	228.64	228.55	0.09	229	2941	9.7	28664	0.607	0.649	0.052	1.11	Xp21.3	0.94	-0.8	| ·
29	X B	271.73	271.57	0.16	274	3152	10.0	31552	0.669	0.666	0.054	1.10	Xp11.4	1.00	0.0	·
34	X C	317.88	317.74	0.14	319	1715	10.9	18667	0.564	0.606	0.057	0.94	Xq28	0.93	-0.7	| ·
38	X C	362.46	362.44	0.02	364	2575	10.9	28013	0.846	0.776	0.076	0.91	Xp22.12	1.09	0.9	· |
42	X D	407.83	407.76	0.07	409	1799	11.8	21236	0.589	0.596	0.051	1.04	Xq25	0.99	-0.1	·
46	X D	451.22	451.33	-0.11	454	1326	12.1	16042	0.445	0.467	0.053	0.79	Xp21.1	0.95	-0.4	·
Chromosome X					Mean	2387	10.6	24661	0.617	0.611	0.055	1.00	(CV: **0.07**)	**1.01**		
15	Y A	158.49	158.46	0.03	160	2776	9.6	26731	0.611	0.588	0.064	0.88	Yp11.31	1.04	0.4	·
20	Y A	191.72	191.66	0.06	193	2575	9.4	24257	0.555	0.446	0.070	0.61	Yp11.31	1.24	1.5	· ‖
25	Y B	238.07	238.00	0.07	238	2861	10.1	28944	0.613	0.629	0.074	0.82	Yq11.21	0.98	-0.2	·
30	Y B	280.59	280.49	0.10	283	3672	10.0	36896	0.782	0.772	0.044	1.68	Yp11.3	1.01	0.2	·
Chromosome Y					Mean	2971	9.8	29207	0.640	0.609	0.063	1.00	(CV: **0.10**)	**1.05**		
Mean values			0.07			3962	10.4	40739	**1.001**	1.000	0.074	**2**		1.00	Total of all except	
Standard deviations			0.07		(Coef. of variance:			0.368)	0.331	0.328				0.07	Ctrl and '?' peaks	

Quality assessment	**Quality limits**	**Quality**
Mean A-group area / mean Q-frag. area	>0.65 (1.50)	3.32
Mean height of first probes AB	> 450 (800)	4646
Mean height of last probes CD	> 280 (500)	3065
Ratio of mean heights AB/CD ('slope')	<3.00 (2.50)	1.52
Mean group CV of weighted ratio	<0.20 (0.15)	0.05
1 uinidentified peak area / 37 peak areas	< (0.02)	0.00

The weighted mean ratios are tested for being outside ratio
1 ± 0.10 for chromosome 13, 18, 21 and female X
1 ± 0.13 for male X and 1 ± 0.24 for Y.
(One-tailed significance is high for p<=1%, and low for p<=5%)

Male Reference

Normal 13, 18, 21, XY

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 252 (15 peaks). 100*CV of ROX heights for peaks above 100 nt is: 9.03

(Ctrl probes are used for quality evaluation only)