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

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

No.	Label	Size	Ref. size	Size diff.	MRC size	Peak Height	Peak Width	Peak Area	Norm. Peak Area	Ref. Mean	Ref. SD	Ref. Weigh	Position p-tel band	Ratio	Dist. in SD	1.0 low high
6	64 -	61.45	61.20	0.25	64	681	18.4	12524	0.793	0.911	0.156	0.89	64 nt	0.87	-0.8	| ·
7	70 -	67.24	66.91	0.33	70	612	22.5	13756	0.871	0.782	0.147	0.81	70 nt	1.11	0.6	· |
8	76 -	72.88	72.54	0.34	76	859	21.3	18308	1.159	1.126	0.128	1.34	76 nt	1.03	0.3	·
9	82 -	78.81	78.43	0.38	82	918	20.3	18620	1.178	1.178	0.184	0.97	82 nt	1.00	0.0	·
Ctrl: Q-fragments					Mean	768	20.6	15802	1.000	0.999	0.154	1.00	(CV: **0.09**)	**1.00**		
11	2 A	90.32	90.17	0.15	94	2383	9.4	22466	0.700	0.786	0.064	1.00	2q14 synt.	0.89	-1.3	| ·
Synthetic control probe					Mean	2383	9.4	22466	0.700	0.786	0.064	1.00	(CV:)	**0.89**		
15	13 A	146.03	145.92	0.11	148	3912	9.3	36273	1.130	1.167	0.051	1.48	13q32.1	0.97	-0.7	·
19	13 A	177.48	177.35	0.13	178	3109	9.4	29081	0.906	0.852	0.062	0.89	13q13.3	1.06	0.9	· |
24	13 B	218.87	218.82	0.05	220	3910	9.6	37552	1.083	1.077	0.050	1.40	13q14.2	1.01	0.1	·
28	13 B	262.52	262.45	0.07	265	3130	10.0	31311	0.903	0.777	0.057	0.88	13q21.33	1.16	2.2	· ||
32	13 C	310.10	309.93	0.17	310	2288	10.4	23696	1.058	1.125	0.067	1.09	13q34	0.94	-1.0	| ·
36	13 C	355.16	355.19	-0.03	355	1936	11.8	22847	1.021	1.017	0.073	0.90	13q13.1	1.00	0.0	·
41	13 D	398.36	398.39	-0.03	400	1988	11.5	22808	0.909	1.094	0.120	0.59	13q14.2	0.83	-1.6	|| ·
45	13 D	442.53	442.59	-0.06	445	1691	12.1	20521	0.817	0.855	0.074	0.75	13q34	0.96	-0.5	·
Chromosome 13					Mean	2746	10.5	28011	0.978	0.995	0.069	1.00	(CV: **0.09**)	**1.00**		
13	18 A	140.23	140.07	0.16	142	4529	9.4	42670	1.329	1.236	0.061	1.25	18q21.1	1.07	1.5	· |
18	18 A	170.85	170.78	0.07	172	3099	9.5	29404	0.916	0.868	0.073	0.73	18q21.32	1.05	0.6	· |
23	18 B	209.93	209.88	0.05	211	3622	9.7	35260	1.017	0.965	0.041	1.44	18q11.2	1.05	1.2	· |
27	18 B	252.81	252.77	0.04	256	3980	10.1	40033	1.154	1.191	0.057	1.29	18q23	0.97	-0.7	·
31	18 C	298.99	298.88	0.11	301	1918	10.5	20049	0.896	1.037	0.066	0.97	18p11.32	0.86	-2.1	| ·
35	18 C	346.23	346.18	0.05	346	1166	11.8	13787	0.616	0.607	0.060	0.63	18q21.33	1.01	0.1	·
40	18 D	389.86	389.97	-0.11	391	2805	11.7	32928	1.312	1.276	0.079	0.99	18q11.2	1.03	0.5	·
44	18 D	433.83	433.86	-0.03	436	2307	12.0	27723	1.104	1.055	0.094	0.69	18p11.21	1.05	0.5	·
Chromosome 18					Mean	2928	10.6	30232	1.043	1.030	0.066	1.00	(CV: **0.07**)	**1.01**		
12	21 A	133.06	132.90	0.16	136	3654	9.6	34897	1.087	1.169	0.115	0.71	21q22.13	0.93	-0.7	| ·
17	21 A	164.69	164.56	0.13	166	3324	9.7	32172	1.002	1.046	0.070	1.04	21q21.1	0.96	-0.6	·
22	21 B	200.82	200.81	0.01	202	3161	9.5	30135	0.869	1.026	0.067	1.07	21q21.1	0.85	-2.3	|| ·
26	21 B	245.35	245.33	0.02	247	2791	10.1	28191	0.813	0.851	0.046	1.28	21q11.2	0.96	-0.8	·
30	21 C	289.27	289.12	0.15	292	2294	10.4	23754	1.061	1.000	0.099	0.70	21q22.11	1.06	0.6	· |
34	21 C	337.62	337.42	0.20	337	1885	11.2	21105	0.943	0.884	0.070	0.88	21q21.3	1.07	0.8	· |
39	21 D	381.31	381.44	-0.13	382	2064	11.2	23206	0.924	0.931	0.056	1.16	21q22.3	0.99	-0.1	·
43	21 D	424.60	424.65	-0.05	427	1865	12.3	22878	0.911	0.911	0.055	1.15	21q22.11	1.00	0.0	·
Chromosome 21					Mean	2630	10.5	27042	0.951	0.977	0.072	1.00	(CV: **0.07**)	**0.97**		
16	X A	152.84	152.75	0.09	154	3651	9.4	34482	1.074	1.049	0.065	1.11	Xq12	1.02	0.4	·
21	X A	183.77	183.64	0.13	184	2689	9.1	24571	0.765	0.828	0.056	1.01	Xq23	0.92	-1.1	| ·
25	X B	228.57	228.55	0.02	229	3709	9.8	36475	1.052	1.079	0.067	1.10	Xp21.3	0.97	-0.4	·
29	X B	271.62	271.57	0.05	274	3536	10.1	35665	1.028	1.034	0.050	1.41	Xp11.4	0.99	-0.1	·
33	X C	317.93	317.74	0.19	319	1902	11.8	22518	1.006	1.039	0.113	0.63	Xq28	0.97	-0.3	·
37	X C	362.35	362.44	-0.09	364	2668	11.1	29485	1.317	1.291	0.083	1.07	Xp22.12	1.02	0.3	·
42	X D	407.79	407.76	0.03	409	2258	11.9	26911	1.072	1.061	0.097	0.75	Xq25	1.01	0.1	·
46	X D	451.24	451.33	-0.09	454	1756	12.4	21774	0.867	0.816	0.061	0.92	Xp21.1	1.06	0.8	· |
Chromosome X					Mean	2771	10.7	28985	1.023	1.024	0.074	1.00	(CV: **0.04**)	**1.00**		
	Y a		158.46		160					0.588			Yp11.31			
	Y a		191.66		193					0.446			Yp11.31			
	Y b		238.00		238					0.629			Yq11.21			
	Y b		280.49		283					0.772			Yp11.3			
Chromosome Y					Mean							1.00	(CV:)			
Mean values				0.05		2757	10.5	28383	**0.990**	1.000	0.070	**2**		0.99	Total of all except	
Standard deviations				0.09		(Coef. of variance:		0.239)	0.163	0.157				0.07	Ctrl and '?' peaks	

Quality assessment	**Quality limits**	**Quality**
Mean A-group area / mean Q-frag. area	>0.65 (1.50)	2.03
Mean height of first probes AB	> 450 (800)	3423
Mean height of last probes CD	> 280 (500)	2049
Ratio of mean heights AB/CD ('slope')	<3.00 (2.50)	1.67
Mean group CV of weighted ratio	<0.20 (0.15)	0.07
3 uinidentified peak areas / 33 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%)

Female Reference

Normal 13, 18, 21, XX

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 145 (15 peaks). 100*CV of ROX heights for peaks above 100 nt is: 8.14

(Ctrl probes are used for quality evaluation only)