Case: del(12pter)dup(17pter)_same_as_P036B-vs04 Folder: P069-vs02-examples Date: 05-03-2009

P069-vs02 Human Telomer MLPA Kit (lot 0606) Female & male ref.: P069-vs02-t02 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	Position band	Ratio	Dist. in SD	1.0 low high
3	64 -	59.93	60.47	-0.54 *	64	212	16.5	3508	0.642	0.696	0.120	0.87		64 nt	0.92	-0.4	
4	70 -	66.20	66.40	-0.20	70	250	19.8	4958	0.907	0.858	0.139	0.92		70 nt	1.06	0.4	
5	76 -	72.29	72.39	-0.10	76	351	18.6	6533	1.196	1.116	0.182	0.91		76 nt	1.07	0.4	
6	82 -	78.62	78.55	0.07	82	336	20.4	6858	1.255	1.331	0.153	1.30		82 nt	0.94	-0.5	
Ctrl: Q-fragments					Mean	287	18.9	5464	1.000	1.000	0.149	1.00		(CV: **0.08**)	**0.99**		
8	2 a	90.35	90.23	0.12	94	2133	9.6	20533	0.769	0.746	0.056	1.00		2q14 synt.	1.03	0.4	
	Y a		104.45		106					0.352	0.032		14.5	Yq11			
	Y a		114.51		118					0.574	0.036		14.0	Yq11			
Ctrl: 2q14 and Y-fragments					Mean	2133	9.6	20533	0.769	0.746	0.056	1.00		(CV:)	**1.03**		
10	1 A	128.83	128.87	-0.04	130	2343	9.7	22799	0.853	0.872	0.042	0.82	245.3	1q	0.98	-0.4	
11	2 A	135.94	135.93	0.01	137	2582	9.6	24743	0.926	0.961	0.065	0.59	242.9	2q	0.96	-0.5	
13	3 A	142.11	142.17	-0.06	144	2657	9.5	25352	0.949	0.948	0.032	1.18	198.8	3q	1.00	0.0	
15	4 A	150.00	149.96	0.04	151	1701	9.7	16548	0.619	0.567	0.033	0.69	191.6	4q	1.09	1.6	
16	5 A	157.74	157.76	-0.02	158	2497	9.8	24476	0.916	0.923	0.034	1.08	180.8	5q	0.99	-0.2	
17	6 A	164.68	164.70	-0.02	165	3340	9.9	32994	1.235	1.157	0.041	1.13	170.7	6q	1.07	1.9	
18	7 A	171.32	171.36	-0.04	172	3105	9.6	29945	1.121	1.119	0.054	0.83	158.1	7q	1.00	0.0	
19	8 A	178.45	178.46	-0.01	179	2992	9.9	29579	1.107	1.103	0.045	0.99	145.7	8q	1.00	0.1	
20	9 A	185.64	185.66	-0.02	186	2371	9.6	22810	0.854	0.834	0.033	1.02	135.9	9q	1.02	0.6	
21	10 A	192.66	192.64	0.02	194	3852	9.8	37930	1.420	1.517	0.040	1.54	134.7	10q	0.94	-2.5	
22	11 B	199.92	199.99	-0.07	202	2532	9.8	24877	1.020	1.052	0.041	1.02	133.3	11q	0.97	-0.8	
23	12 B	209.10	209.11	-0.01	210	2983	10.1	30124	1.235	1.125	0.043	1.05	132.0	12q	1.10	2.6	
24	13 B	216.81	216.82	-0.01	218	2053	10.0	20560	0.843	0.813	0.037	0.87	112.9	13q	1.04	0.8	
25	14 B	224.57	224.53	0.04	226	2416	10.0	24274	0.995	1.021	0.033	1.22	103.9	14q	0.98	-0.8	
26	15 B	231.60	231.54	0.06	234	2758	10.0	27687	1.135	1.071	0.063	0.68	99.9	15q	1.06	1.0	
27	16 B	239.66	239.58	0.08	242	2415	9.9	23961	0.983	0.986	0.043	0.92	89.8	16q	1.00	-0.1	
28	17 B	248.49	248.47	0.02	250	2683	10.0	26850	1.101	1.113	0.036	1.23	81.0	17q	0.99	-0.3	
29	18 B	256.95	256.71	0.24	258	2659	10.3	27487	1.127	1.099	0.028	1.57	75.6	18q	1.03	1.0	
30	19 B	264.02	263.94	0.08	266	2258	10.1	22718	0.932	1.041	0.044	0.96	63.7	19q	0.89	-2.5	
31	20 B	271.68	271.65	0.03	274	1462	10.5	15318	0.628	0.680	0.032	0.85	63.3	20q	0.92	-1.6	
32	21 C	279.13	278.96	0.17	282	2205	10.4	22906	1.150	1.033	0.034	1.21	46.9	21q	1.11	3.4	
33	22 C	288.68	288.69	-0.01	290	2379	10.4	24665	1.238	1.316	0.076	0.70	49.2	22q	0.94	-1.0	
34	XY C	296.24	296.11	0.13	298	2203	12.1	26581	1.335	1.184	0.055	0.86	153.6	X/Yq	1.13	2.7	
q-arms					Mean	2541	10.0	25443	1.031	1.023	0.043	1.00		(CV: **0.06**)	**1.01**		
35	1 C	305.33	305.31	0.02	306	1986	10.5	20897	1.049	1.165	0.048	1.06	1.0	1p	0.90	-2.4	
36	2 C	313.95	314.10	-0.15	314	1317	10.4	13670	0.686	0.695	0.055	0.55	0.3	2p	0.99	-0.2	
37	3 C	322.49	322.75	-0.26	322	2461	10.5	25927	1.302	1.159	0.055	0.92	0.3	3p	1.12	2.6	
38	4 C	331.52	331.67	-0.15	330	1604	10.8	17279	0.868	0.970	0.043	0.98	0.3	4p	0.89	-2.4	
39	5 C	338.29	338.52	-0.23	338	1434	10.7	15273	0.767	0.842	0.036	1.04	0.3	5p	0.91	-2.1	
40	6 C	345.46	345.54	-0.08	346	1413	10.9	15389	0.773	0.795	0.041	0.84	0.3	6p	0.97	-0.5	
41	7 C	353.46	353.33	0.13	354	1481	11.2	16591	0.833	0.841	0.022	1.69	0.6	7p	0.99	-0.4	
42	8 D	360.26	360.24	0.02	362	1379	10.8	14922	0.928	0.912	0.030	1.31	0.4	8p	1.02	0.5	
43	9 D	369.10	368.91	0.19	370	1608	11.0	17682	1.100	1.047	0.036	1.27	0.4	9p	1.05	1.5	
44	10 D	374.93	374.84	0.09	378	2570	11.6	29891	1.859	1.841	0.061	1.33	0.2	10p	1.01	0.3	
45	11 D	384.84	384.78	0.06	386	1411	11.3	15963	0.993	1.144	0.064	0.79	0.2	11p	0.87	-2.4	
46	12 D	392.67	392.47	0.20	394	845	11.4	9594	0.597	1.226	0.063	0.85	0.3	12p	0.49	-10.0 *	
47	16 D	400.40	400.27	0.13	402	1281	11.4	14566	0.906	0.895	0.041	0.97	0.4	16p	1.01	0.3	
48	17 D	409.02	408.91	0.11	410	2295	11.6	26693	1.661	1.152	0.036	1.42	0.2	17p	1.44	14.2 *	
49	18 D	416.90	416.74	0.16	418	1050	11.9	12445	0.774	0.714	0.040	0.78	0.2	18p	1.08	1.5	
50	19 D	423.92	423.79	0.13	426	1190	11.7	13911	0.865	0.838	0.055	0.67	0.2	19p	1.03	0.5	
51	20 D	430.67	430.44	0.23	434	964	11.9	11464	0.713	0.664	0.045	0.64	0.3	20p	1.07	1.1	
52	XY D	439.18	438.97	0.21	442	815	11.9	9694	0.603	0.566	0.028	0.88	0.5	X/Yp	1.06	1.3	
p-arms					Mean	1506	11.2	16770	0.960	0.970	0.044	1.00		(CV: **0.18**)	**1.01**		
Mean values				0.03		2087	10.5	21635	**1.000**	1.000	0.044	3			1.01	Total of all except	
Standard deviations				0.12		(Coef. of variance:		0.313)	0.271	0.242					0.13	Ctrl and '?' peaks	

Quality assessment	**Quality limits**	**Quality**
Mean A-group area / mean Q-frag. area	>0.65 (1.50)	4.89
Mean height of first probes AB	> 450 (800)	2583
Mean height of last probes CD	> 280 (500)	1614
Ratio of mean heights AB/CD ('slope')	<3.00 (2.50)	1.60
Mean group CV of weighted ratio	<0.20 (0.15)	0.11
3 uinidentified peak areas / 42 peak areas	< (0.02)	0.00

Individual peaks having normalized area > 4.0 SD from the ref. mean and ratio <0.65 or >1.3 indicate 'abnormal' probe area.

Female & male ref.

Abn. peaks: 12p 17p

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 234 (14 peaks). 100*CV of ROX heights for peaks above 100 nt is: 8.46

(Ctrl probes are used for quality evaluation only)