Case: P286-A1-normal-sample Folder: P286-A1-vs01-examples Date: 11-03-2010

P286-A1-vs01 Human Telomere-11 (9q,10q,11q,12q) (lot 1207) Female & male ref.: P286-A1-vs01-t01 Ver.: 5.21

			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	Ratio	Dist. in SD	1.0 low high
12	64 -	60.70	60.83	-0.13	64	536	10.4	5585	1.400	1.448	0.166	0.88		64 nt	0.97	-0.3	·
13	70 -	67.00	66.87	0.13	70	319	12.8	4087	1.024	0.917	0.167	0.56		70 nt	1.12	0.6	·|
14	76 -	72.89	72.93	-0.04	76	307	10.7	3276	0.821	0.862	0.065	1.35	Distance	76 nt	0.95	-0.6	·
15	82 -	79.33	79.32	0.01	82	259	11.6	3011	0.755	0.716	0.060	1.20	to	. 82 nt	1.05	0.6	·|
Ctrl: Q-fragments					Mean	355	11.4	3990	1.000	0.986	0.114	1.00		(CV: **0.07**)	**1.01**		
16	6 a	85.83	85.78	0.05	88	1407	6.1	8649	0.577	0.933	0.540	0.34	q-	. 6p21.3 CpG isl.	0.62	-0.7	||||·
18	2 a	91.19	91.16	0.03	92	1493	5.3	7868	0.525	0.557	0.050	2.17	telomere	2q14 synt.	0.94	-0.6	|·
19	1 a	97.19	97.19	0.00	96	802	6.6	5260	0.351	0.555	0.222	0.49	MV36 kb	1p36.3 CpG isl.	0.63	-0.9	||||·
Ctrl: D-fragments					Mean	1234	6.0	7259	0.484	0.681	0.271	1.00		(CV: **0.20**)	**0.86**		
46	9 C	318.41	318.33	0.08	319	952	6.6	6310	0.465	0.510	0.038	0.82	5502	9q34	0.91	-1.2	|·
28	9 A	177.32	177.34	-0.02	178	2484	6.2	15378	1.026	1.022	0.032	2.00	3142	9q34.3	1.00	0.1	·
45	9 C	310.13	310.07	0.06	310	2847	8.0 *	22665	1.670	1.653	0.178	0.57	2283	9q34.3	1.01	0.1	·
36	9 B	225.32	225.31	0.01	226	1841	6.3	11673	0.794	0.848	0.055	0.95	2037	9q34.3	0.94	-1.0	|·
60	9 D	434.37	434.41	-0.04	436	1643	8.1	13249	1.152	1.167	0.052	1.38	1332	9q34	0.99	-0.3	·
42	9 C	282.25	282.23	0.02	283	2286	6.5	14856	1.095	1.094	0.106	0.64	1215	9q34.3	1.00	0.0	·
50	9 C	355.09	355.15	-0.06	355	1882	7.0	13123	0.967	0.991	0.075	0.81	1020	9q34.3	0.98	-0.3	·
39	9 B	255.79	255.87	-0.08	256	1242	6.4	8008	0.545	0.572	0.074	0.48	806	9q34.3	0.95	-0.4	·
24	9 A	154.47	154.40	0.07	154	2719	6.0	16408	1.094	1.078	0.043	1.54	704	9q34.3	1.02	0.4	·
56	9 D	400.00	399.93	0.07	403	1585	7.8	12298	1.069	1.065	0.062	1.07	667	9q34.3	1.00	0.1	·
48	9 C	337.34	337.27	0.07	337	1583	7.0	11077	0.816	0.859	0.070	0.75	642	9q34.3	0.95	-0.6	|·
52	9 C	369.16	369.18	-0.02	370	1634	7.4	12036	0.887	0.895	0.091	0.61	421	9q34.3	0.99	-0.1	·
20	9 A	128.23	128.33	-0.10	130	1794	6.2	11164	0.745	0.776	0.035	1.36	134	9q34.3	0.96	-0.9	·
9q					Mean	1884	6.9	12942	0.948	0.964	0.070	1.00		(CV: **0.03**)	**0.98**		
57	10 D	408.64	408.64	0.00	409	1744	7.6	13194	1.147	1.109	0.029	1.69	5621	10q26.3	1.03	1.3	·
31	10 B	196.01	196.01	0.00	196	1741	6.0	10527	0.716	0.740	0.047	0.70	3928	10q26.3	0.97	-0.5	·
29	10 A	184.17	184.21	-0.04	184	1569	6.3	9841	0.656	0.674	0.027	1.11	3512	10q26.3	0.97	-0.6	·
25	10 A	159.53	159.55	-0.02	160	2849	6.2	17557	1.171	1.224	0.061	0.90	2378	10q26.3	0.96	-0.9	·
21	10 A	134.08	134.09	-0.01	136	2271	6.1	13856	0.924	0.950	0.029	1.46	1509	10q26.3	0.97	-0.9	·
34	10 B	214.80	214.87	-0.07	214	3475	6.2	21649	1.472	1.400	0.062	1.00	930	10q26.3	1.05	1.2	·|
37	10 B	237.43	237.45	-0.02	238	1307	6.3	8250	0.561	0.513	0.033	0.70	177	10q26.3	1.09	1.5	·|
53	10 D	376.21	376.25	-0.04	378	950	7.2	6845	0.595	0.595	0.062	0.43	179	10q26.3	1.00	0.0	·
10q					Mean	1988	6.5	12715	0.905	0.901	0.044	1.00		(CV: **0.05**)	**1.01**		
41	11 B	274.63	274.64	-0.01	274	3335	6.5	21599	1.469	1.373	0.096	0.59	6611	11q24.3	1.07	1.0	·|
59	11 D	425.70	425.67	0.03	426	1506	7.7	11603	1.009	1.002	0.008	4.94	6268	11q24.3	1.01	0.9	·
30	11 A	190.17	190.16	0.01	190	2042	6.1	12440	0.830	0.863	0.071	0.50	5186	11q24.3	0.96	-0.5	·
47	11 C	328.26	328.18	0.08	328	1308	6.7	8797	0.648	0.730	0.045	0.67	4932	11q24.3	0.89	-1.8	|·
61	11 D	443.82	443.86	-0.04	445	1799	7.9	14131	1.229	1.252	0.063	0.82	4659	11q25	0.98	-0.4	·
58	11 D	416.96	416.97	-0.01	418	1645	7.7	12734	1.107	1.166	0.097	0.50	4602	11q25	0.95	-0.6	|·
38	11 B	242.87	242.95	-0.08	243	3167	6.3	20087	1.366	1.491	0.110	0.56	4159	11q25	0.92	-1.1	|·
51	11 C	361.61	361.68	-0.07	364	2917	7.1	20839	1.536	1.475	0.045	1.37	3415	11q25	1.04	1.4	·
49	11 C	345.24	345.26	-0.02	346	1995	7.1	14199	1.046	1.094	0.049	0.92	2765	11q25	0.96	-1.0	·
26	11 A	167.70	167.69	0.01	166	2727	5.9	16067	1.072	1.040	0.106	0.41	2639	11q25	1.03	0.3	·
44	11 C	298.52	298.55	-0.03	301	2404	6.7	16159	1.191	1.071	0.089	0.50	1232	11q25	1.11	1.3	·|
63	11 D	460.25	460.32	-0.07	463	1759	8.1	14196	1.234	1.236	0.039	1.30	926	11q25	1.00	0.0	·
54	11 D	384.75	384.83	-0.08	386	784	7.1	5602	0.487	0.554	0.072	0.32	854	11q25	0.88	-0.9	|·
22	11 A	140.51	140.57	-0.06	142	2856	6.0	17112	1.141	1.137	0.079	0.60	687	11q25	1.00	0.1	·
11q					Mean	2160	6.9	14683	1.098	1.106	0.069	1.00		(CV: **0.05**)	**1.00**		
62	12 D	453.41	453.45	-0.04	454	1978	8.0	15732	1.368	1.291	0.104	0.81	4485	12q24.33	1.06	0.7	·|
33	12 B	207.79	207.85	-0.06	208	934	6.2	5757	0.392	0.439	0.056	0.52	3136	12q24.33	0.89	-0.8	|·
35	12 B	219.55	219.55	0.00	220	2478	6.2	15255	1.037	1.011	0.035	1.91	2928	12q24.33	1.03	0.8	·
40	12 B	261.69	261.74	-0.05	265	3033	6.4	19444	1.322	1.288	0.056	1.49	1513	12q24.33	1.03	0.6	·
32	12 B	202.37	202.38	-0.01	202	3097	6.2	19237	1.308	1.325	0.102	0.85	1378	12q24.33	0.99	-0.2	·
27	12 A	171.46	171.39	0.07	172	3089	6.1	18843	1.257	1.212	0.065	1.21	1096	12q24.33	1.04	0.7	·
23	12 A	145.69	145.70	-0.01	148	2637	6.1	16009	1.068	1.025	0.067	1.00	642	12q24.33	1.04	0.6	·
55	12 D	393.25	393.25	0.00	394	922	7.3	6711	0.584	0.563	0.066	0.56	391	12q24.33	1.04	0.3	·
43	12 C	290.78	290.81	-0.03	292	1362	6.6	8980	0.662	0.628	0.064	0.65	376	12q24.33	1.05	0.5	·|
12q					Mean	2170	6.5	13996	1.000	0.976	0.068	1.00		(CV: **0.04**)	**1.02**		
Mean values				-0.01		2049	6.8	13670	**0.998**	1.000	0.065	**3**			1.00	Total of all except	
Standard deviations				0.05		(Coef. of variance:		0.333)	0.316	0.299					0.04	Ctrl and '?' peaks	

Quality assessment	**Quality limits**	**Quality**
Mean A-group area / mean Q-frag. area	>0.65 (1.50)	3.76
Mean CpG-area / mean A-group area	>0.30 (0.65)	0.46 **low**
Mean height of first probes AB	> 450 (800)	2395
Mean height of last probes CD	> 280 (500)	1704
Ratio of mean heights AB/CD ('slope')	<3.00 (2.50)	1.41
Mean group CV of weighted ratio	<0.20 (0.15)	0.04
0 uinidentified peak areas / 47 peak areas	< (0.02)	0.00

Weighted mean ratios are tested for being outside ratio 1±0.13
One-tailed significance is high for p<=1%, and low for p<=5%.
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.

Normal probes

1 quality warning!

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 303 (14 peaks). CV of ROX heights for peaks above 100 nt is: 0.10

(Ctrl probes are used for quality evaluation only)