



Human genomic control DNA

Mutation in α - globin gene (α - thalassemia)

CERTIFICATE OF ANALYSIS

Product Information

Product name :	Mutant Control DNA for α - Thalassemia
Cat. No. :	K5402
Concentration:	300 ng/ μ l
Storage condition :	-20°C
Mutation type:	-- ^{20.5} / $\alpha\alpha$

QC Results

Test Items	Specifications	Results
Absorbance ratio	A260/A280>1.8 A260/A230>2.0	Passed
Electrophoresis	Average size larger than 50 kb	Passed
Sequencing	No other mutation in the gene	passed
Enzyme activity	<i>EcoRI</i> digestion	passed

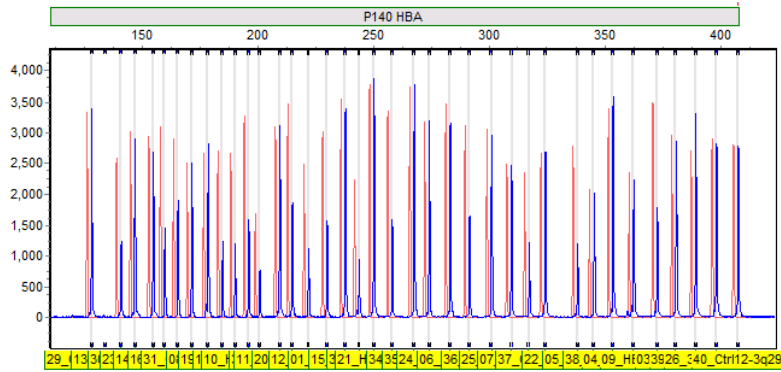
Caution:

This product is pure human genomic DNA, and must be kept away from PCR products to avoid contamination

MLPA result :

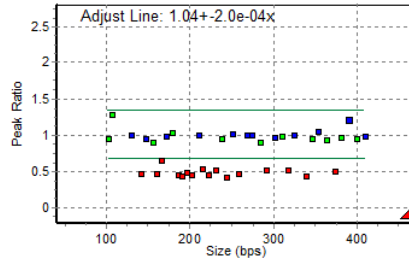
MLPA Analysis Report - SoftGenetics	
Software: GeneMarker V1.95	Analysis Type: MLPA
Project: Untitled	Compare Type: MLPA Ratio
Technician:	Normalization By: Population Normalization (Adjusted)
Report Time: 07/17/2013 - 11:12:30	Quantification By: Peak Height
Panel: 000	Classification: Loss < 0.70 <= Equivalent <= 1.35 < Gain
Control: Synthetic Control Sample	Report Value Type: Peak Ratio
Synthetic Used: 92-4-25_1-HBA-P140-B3-9555MP-NL.fsa /// 92-4-25_10-HBA-P140-B3-9016PP-NL.fsa /// 92-4-25_5-HBA-P140-B3-8039PM-NL.fsa	

9-HBA-P140-E **k5402** ;2-PA.fsa -- Dye: Blue



Sample Name: 9-HBA-P140-B3-979CVS-S2-PA
 Machine: 3130XL-52038
 Run Time: 07/16/2013 - 16:53:42 -> 07/16/2013 - 17:45:40

Conclusion	Date	Initial
Authorization 1		
Authorization 2		



Probe Name	Bin Size	92-4-25_9-HBA-P140-B3
1 01_16p13 POLR3K	237.6	0.959
2 02_HS-40 (1)	178.4	1.048
3 03_HS-40 (2)	380.9	0.976
4 04_9.3kb up HBZ	362.5	0.951
5 05_3.5kb up HBZ	345.4	0.964
6 06_HBZ/HBZP(1)	291.2	0.532
7 07_HBZ/HBZP(2)	317.4	0.524
8 08_HBA2P/HBA1P	184.6	0.455
9 09_HBA1P/HBA2(1)	372.7	0.513
10 10_HBA1P/HBA2(2)	200.7	0.464
11 11_HBA1P/HBA2(3)	214.7	0.535
12 12_HBA1P/HBA2(4)	229.7	0.518
13 13_HBA1+2 ex1	140.8	0.477
14 14_HBA2 int2(1)	159.7	0.466
15 15_HBA2 int2(2)	243.5	0.423
16 16_HBA1+2 ex3	165.4	0.656
17 17_CS	134.0	-1
18 18_End HBA2 ex3	195.9	0.488
19 19_HBA2/HBA1(1)	190.1	0.443
20 20_HBA2/HBA1(2)	221.7	0.453
21 21_HBA2/HBA1(3)	257.8	0.473
22 22_HBA2/HBA1(4)	338.3	0.436
23 23_0.2kb d HBA1	154.7	0.915
24 24_0.5kb d HBA1	282.9	0.906
25 25_2.4kb d HBA1	309.7	0.994
26 26_3.7kb d HBA1	398.3	0.970
27 27_X_100	101.7	0.961
28 28_Y_105	106.2	1.291
29 29_Ctri01-5q31	128.1	1.017
30 30_Ctri02-9q22	146.8	0.963
31 31_Ctri03-15q11	171.3	0.996
32 32_Ctri04-17q21	209.3	1.006
33 33_Ctri05-1p21	250.0	1.028
34 34_Ctri06-5p15	267.4	1.009
35 35_Ctri07-5q22	273.8	1.005
36 36_Ctri08-11p13	300.7	0.976
37 37_Ctri09-16p13	324.4	1.008
38 38_Ctri10-11q22	353.6	1.063
39 39_Ctri11-5q22	389.3	1.219
40 40_Ctri12-3q29	407.6	0.991

There was a hetero deletion from prob 6 (between HBZ and HBZP) to prob 22 (between HBA1 and HBA2). (compatible with 20.5 deletion).