



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. :	K5403
Concentration:	300 ng/ μ l
Storage condition:	-20°C
Mutation type:	$-3.7\alpha / \alpha\alpha$

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

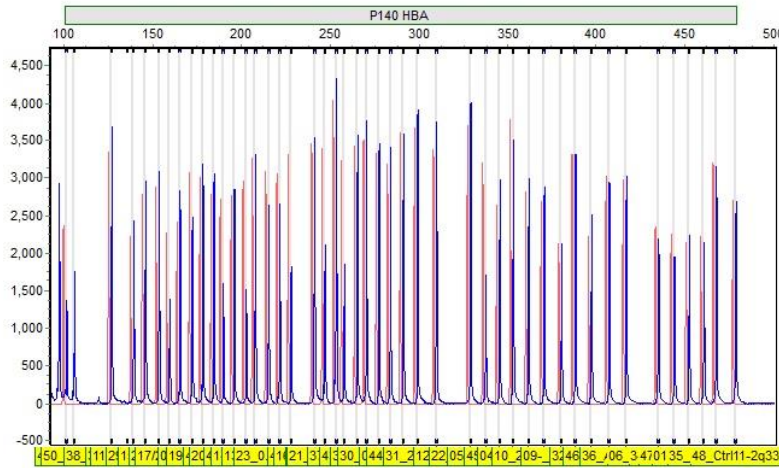
Caution:

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: 940807-P140-C1-PROJECT.SGF	Compare Type: MLPA Ratio
Technician:	Normalization By: Population Normalization
Report Time: 11/01/2015 - 09:44:48	Quantification By: Peak Height
Panel: 00	Classification: Loss < 0.75 <= Equivalent <= 1.45 < Gain
Control: Synthetic Control Sample	Report Value Type: Peak Ratio
Synthetic Used: 94-8-7_16-HBA-P140-C1-12777PP-NL.fsa /// 94-8-7_1-HBA-P140-C1-Z-SHA-NL.fsa /// 94-8-7_6-HBA-P140-C1-H-NO F-NL.fsa	

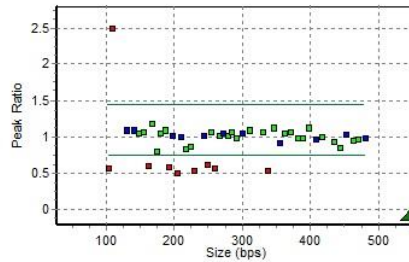
_12-HBA-P140-C1- **K5403** -- Dye: Blue



Probe Name	Bin Size	94-8-7_12-HBA-P140-C1
1 01-POLR3K gene	460.9	0.969
2 02_HS-40 (1)	178.5	1.064
3 03_HS-40 (2)	380.9	0.998
4 04_9.3kb up HBZ	362.4	1.065
5 05_3.5kb up HBZ	345.4	1.130
6 06_0.2kb up HBZ	435.4	0.940
7 07_HBZ/HBZP	291.2	0.998
8 08_HBA2P/HBA1P	184.7	1.099
9 09_3kupHBA2_e1	388.5	0.998
10 10_2.5 kupHBA2_e	371.1	1.077
11 11_0.9kupHBA2_e	146.1	1.067
12 12_0.6kupHBA2e1	329.1	1.082
13 13/24_HBA1+A2e1	221.7	0.872
14 14/25_HBA1+A2e1	215.5	0.850
15 15_HBA2 int2(1)	159.7	0.613
16 16_HBA2 int2(2)	247.2	0.621
17 17/28_HBA1+2ex3	172.5	0.806
18 18_C.S	136.0	-1
19 19_2.6kupHBA1e1	190.0	0.587
20 20_2.1kupHBA1e1	202.7	0.513
21 21_1.5kupHBA1e1	258.0	0.574
22 22_0.9kupHBA1e1	337.6	0.538
23 23_0.6kupHBA1e1	228.1	0.550
24 26_HBA1 int2(a)	165.5	1.175
25 27_HBA1 int2(b)	253.5	1.074
26 29_0.2kb d HBA1	153.7	1.074
27 30_0.5kb d HBA1	284.0	1.073
28 31_2.3kb d HBA1	309.8	1.106
29 32_HBQ1.ex3	397.7	1.125
30 33_LUC7L gene	277.7	1.036
31 34_ITFG3 gene	444.2	0.869
32 35_RGS11 gene	467.9	0.984
33 36_AXIN1 gene	417.2	1.016
34 37_DEC2 gene	285.4	1.037
35 38_Ctr101-5q31	127.1	1.104
36 39_Ctr102-8p23	139.4	1.095
37 40_Ctr103-10q26	196.1	1.029
38 41_Ctr104-12p13	208.0	1.015
39 42_Ctr105-1q41	241.3	1.026
40 43_Ctr106-5q31	270.6	1.069
41 44_Ctr107-13q14	299.2	1.066
42 45_Ctr108-11q22	353.7	0.929
43 46_Ctr109-3q29	407.6	0.973
44 47_Ctr110-15q26	452.6	1.040
45 48_Ctr111-2q33	479.0	0.997
46 49_X_100	101.7	0.579
47 50_Y_105	106.1	1.000

Machine: 3130XL-52038
Run Time: 10/29/2015 - 11:44:01 -> 10/29/2015 - 12:30:20

Conclusion		
	Date	Initial
Authorization 1		
Authorization 2		



There was a hetero deletion from prob 13 (exon 1 of HbA2) to prob 23 (0.6kb up HbA1), compatible with 3.7 kb deletion.