



Wider view on mutation spectrum

Beta-Thalassemia Analysis Kit

– all you need in one box –



Quick facts

- 69 genetic variations from Human Haemoglobin Beta gene detected simultaneously in a single run
- Mediterranean region specific genetic variations
- Developed with the leading scientists in the Beta-Thalassemia research community backed by the latest scientific and medical studies

Easy to use

- Everything you need is in one box
- Analysis software comes with integrated guidance for mutation detection
- Barcoded arrays to ensure precise tracking
- Consultations from day-to-day users

Beta-Thalassemia

- Genorama reliable Beta-Thalassemia Analysis Kit is based on flexible and cost-effective Arrayed Primer EXTension (APEX) genotyping technology
- The kit enables to determine 69 genetic variations in Human Haemoglobin Beta (HBB) gene
- Genorama Beta-Thalassemia genetic test is recommended for both diagnostics and carrier testing

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Reliable and up to date

- >99.9% accuracy
- List of relevant publications is available on Genorama website
- IVD CE certified
- Intensively used throughout years and hundreds of screened samples
- Based on established and validated APEX technology
- Genorama is keeping a close eye on new discoveries in the field

Genorama Beta-Thalassemia Analysis KIT includes all consumables for successful analysis process and provides all necessary reagents, PCR primers and barcoded arrays for 25 tests

- PCR primers and purification Kit
- APEX Template Preparation Kit
- APEX Reaction Mixture Kit
- Beta-Thalassemia microarrays

APEX technology

Arrayed Primer EXTension (APEX) genotyping is based upon an array of oligonucleotides, immobilized on glass surface via their 5' end. Patient's DNA is amplified by PCR, digested enzymatically and annealed to the immobilized primers, which promote sites for template-dependent DNA polymerase extension reactions using four unique fluorescently labelled dideoxy nucleotides. The mutation is detected by the change in primer sites colour code using the previously installed Genorama genotyping platform.

Ordering information

Cat #	Product name
G10001	Beta-Thalassemia Analysis KIT for 25 reactions

For further information please contact Genorama representatives

Genetic variations in test

Human Haemoglobin Beta (HBB) gene

HbC; Cd 2 (CAC>CAT) polymorphism; Cd 6 (GAG ->GTG) HbS; Cd 6 (GAG ->del-A); Cd 8 (AAG->del-AA); Cd 8/9 insG; Cd 9/10 insT; Cd 15 (TGG->TAG); Cd 22-24 delAAGTTGG; Cd 24 (GGT->GGA); Cd 24 delG/insCAC; Cd 25/26 insT; Cd 26 (GAG->AAG) HbE; Cd 27 (GCC->TCC) Hb Knossos; Cd 28 delC; Cd 30 (AG->AC) or IVSI-1; Cd 30 (AG->GG) or IVSI-2; Cd 36/37 delT; Cd 37 (G->A); Cd 39 (CAG->TAG); Cd 44 (TCC->del-C); Cd 76 (GCT->del-C); Cd 90 (G->T); Cd106/107 insG; Cd 121 (GAA->CAA) Hb Punjab or Hb D; Cd 121 (GAA->AAA) Hb O-Arab; 3'UTR; +1570 (T->C) 12 nts 5' to the PolyA site; 5'UTR; +33 (C->G); 5'UTR; +30 (T->C); 5'UTR; +22 (G->A); 5'UTR; +20 (C->G/T) polymorphism (100% linked with IVSII-745); -28 (A->C); -30 (T->C); -30 (T->A); -87 (C->G); -88 (C->T); -92 (C->T); -101 (C->T); IVSI-1 (G->A); IVSI-1 (G->C); IVSI-1 (G->T); IVSI-2 (T->G); IVSI-3 or Cd 29 (GGC->GGT); IVSI-5 (G ->A); IVSI-5 (G ->C); IVSI-5 (G ->T); IVSI-6 (T->C); IVSI del17bp; IVSI del25bp; IVSI del44bp; IVSI-110 (G->A); IVSI-116 (T->G); IVSI-128 (T->G); IVSI-130 (G->A); IVSI-130 (G->C); IVSII-1 (G->A); IVSII-74 (G->T) polymorphism; IVSII-654 (C->T); IVSII-666 (T->C); IVSII-705 (T->G); IVSII-745 (C->G); IVSII-844 (C->G); IVSII-848 (C->A); IVSII-849 (A->C); 3'UTR; Poly (A) AATAAA->AATGAA; 3'UTR; Poly (A) AATAAA->AATAAG ; 3'UTR; Poly (A) AATAAA->-----A

