# DISEASE:
# Acute myeloid leukemia with t(8;21)(q22;q22) translocation

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| **NAME:** | Acute myeloid leukemia with t(8;21)(q22;q22) translocation |
| **DESCRIPTION:** | A rare acute myeloid leukemia with recurrent genetic anomaly disorder characterized by a t(8;21)(q22;q22) balanced translocation cytogenetic abnormality, forming a RUNX1-RUNX1T1 fusion gene, presenting with morphological characteristics which include myeloblasts with indented nuclei, basophilic cytoplasm with a prominent paranuclear hof that may contain a few azurophilic granules, prominent and possibly large promyelocytes, myelocytes and metamyelocytes, easily identifiable Auer rods and, more variably, bone marrow eosinophilia. Myeloid sarcoma is frequently present at diagnosis. Detection of the t(8;21)(q22;22) translocation is sufficient for diagnosis irrespective of blast count. |
| **ORPHACODE:** | 102724 |
| **SYNONYMS:** | AML with t(8;21)(q22;q22) translocation |
| **XREF(S):** | Orphanet<br>ICD-10 |
| **ANALYTE(S):** | RUNX1<br>FLT3<br>CEBPA<br>RUNX1T1<br>KIT |
| **CREATED:** | 13 May 2019 - 01:02 |

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| **CHANGED:** | 22 Jun 2023 - 16:14 |

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Source URL: http://gentest-acc.healthdata.be/disease/3677

# RELATED CONTENT

## Related Genetic Tests

- Myeloid neoplasms with germline predisposition (Hereditary MDS/Acute Leukemia) (gene panel)
- Trombosis - Hemostasis (gene panel)

## Related Laboratories

- Centre de Génétique Humaine - CHU Sart-Tilman
- Centrum Menselijke Erfelijkheid - KUL

## Related Analytes

- CCAAT enhancer binding protein alpha
- fms related receptor tyrosine kinase 3
- KIT proto-oncogene, receptor tyrosine kinase
- RUNX family transcription factor 1
- RUNX1 partner transcriptional co-repressor 1

## Related Gene Panels

- Hereditary Myelodysplastic /Acute Leukemia Predisposition Syndromes (gene panel)
- Trombosis - Hemostasis (108 genes) - KUL