

## Current list of all examination procedures within the (flexible) scope of accreditation

Status: 20.03.2024

Note: Changes to the previous version are marked in green

Within the test areas marked with \*, the laboratory is permitted to freely select standardized or equivalent test methods without having to inform and obtain prior approval from the Deutsche Akkreditierungsstelle GmbH.

Within the test areas marked with \*\*, the laboratory is permitted to modify, further develop and develop new test methods without having to inform and obtain prior approval from DAkkS GmbH.

### Field of investigation: Clinical chemistry

Type of examination:

Microscopy\*

Analyte (measured variable)	Test material (matrix)	Examination technique	Instruction/version
Berlin blue reaction	Bone marrow, peripheral blood	Bright field microscopy	AA-Z-015-19
Naphthyl acetate esterase	Bone marrow, peripheral blood	Bright field microscopy	AA-Z-014-22
Peroxidase reaction	Bone marrow, peripheral blood	Bright field microscopy	AA-Z-018-18
Differentiation of peripheral blood	Peripheral blood	Bright field microscopy	AA-Z-031-06
Bone marrow differentiation	Bone marrow	Bright field microscopy	AA-Z-031-06
Toluidine blue coloration	Bone marrow, peripheral blood	Bright field microscopy	AA-Z-009-11
Pappenheim staining	Bone marrow, peripheral blood	Bright field microscopy	AA-Z-016-11
Rapid dyeing	Bone marrow, peripheral blood	Bright field microscopy	AA-Z-012-09
Examination of cytopsin preparations	Liquor	Bright field microscopy	AA-Z-013-16

Type of examination:

Flow cytometry (incl. determination of particle properties)\*

Analyte (measured variable)	Test material (matrix)	Examination technique	Instruction/version
Immune status	Peripheral blood	Flow cytometry	GA-I-004-14, FB-I-024-06
CLL/B-NHL	Bone marrow, peripheral blood	Flow cytometry	AA-I-044-23, AA-I-038-29

Analyte (measured variable)	Test material (matrix)	Examination technique	Instruction/version
T-NHL	Bone marrow, peripheral blood	Flow cytometry	AA-I-044-23, AA-I-045-14, AA-I-048-06
AML, MPN	Bone marrow, peripheral blood	Flow cytometry	AA-I-044-23, AA-I-045-14, AA-I-052-26
ALL	Bone marrow, peripheral blood	Flow cytometry	AA-I-044-23, AA-I-045-14, AA-I-051-14
Multiple myeloma	Bone marrow, peripheral blood	Flow cytometry	AA-I-044-23, AA-I-045-14, AA-I-039-16
PNH	Bone marrow, peripheral blood	Flow cytometry	AA-I-018-23
MDS	Bone marrow, peripheral blood	Flow cytometry	AA-I-044-23, AA-I-046-06, FB-I-019-34
Erythrocytes (spherocytosis)	Peripheral blood	Flow cytometry	AA-I-041-14
Mast cells (mastocytosis)	Bone marrow, peripheral blood	Flow cytometry	AA-I-057-14
CD138-based purification of Plasma cells	Bone marrow	MACS	AA-Z-024-36
Small blood count	Peripheral blood	Resistance measurement/ Fluorescence Flow cytometry	AA-L-004-05, GA-P-007-02, GA-G-005-02, KA-L-003-01
Differential blood count (machine)	Peripheral blood	Fluorescence flow cytometry	AA-L-004-05, GA-G-005-02, KA-L-003-01
Reticulocytes	Peripheral blood	Fluorescence flow cytometry	AA-L-004-05, GA-G-005-02, KA-L-003-01

Type of examination:

Spectrometry (nephelometry / immunonephelometry)\*

Analyte (measured variable)	Test material (matrix)	Examination technique	Instruction/version
C-reactive protein (CRP)	Peripheral blood (serum, plasma)	Immunonephelometry	KA-L-001-04, AA-L-003-10, GA-L-002-05, KA-L-004-01
Ferritin	Peripheral blood (serum, plasma)	Immunonephelometry	KA-L-001-04, AA-L-003-10, GA-L-002-05, KA-L-004-01
Soluble transferrin receptor	Peripheral blood (serum, plasma)	Immunonephelometry	KA-L-001-04, AA-L-003-10, GA-L-002-05, KA-L-004-01

Type of examination:

Electrophoresis\*

Analyte (measured variable)	Test material (matrix)	Examination technique	Instruction/version
Hemoglobin variants	Peripheral blood	Capillary electrophoresis	AA-L-001-10, FB-L-001-04, GA-L-001-07

Research area: Human genetics (molecular human genetics)

Type of examination:

Molecular biological tests (amplification methods)\*\*

Analyte (measured variable)	Examination material (input material; if necessary test material)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
ANKRD26 <sup>3</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
ARID1A <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
ASXL1 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
ASXL2 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
ATM <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)

Analyte (measured variable)	Examination material (input material; if necessary test material)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
ATRX <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
BAALC <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	Real time PCR	<a href="#">AA-M-041-35</a>
BAX <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
BCL2 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
BCOR <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
BCORL1 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
BCR <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Sanger sequencing, Real time PCR	KA-M-262-04, AA-M-063-11
BCR <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Fragment analyses	AA-M-006-15; <a href="#">AA-M-168-05</a>

Analyte (measured variable)	Examination material (input material; if necessary test material)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
BCR-ABL1 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	PCR	AA-M-015-17, <a href="#">AA-M-016-19</a>
BCR-ABL1 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	Real time PCR	AA-M-009-32
BCR-ABL1 mutation <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
BCR-FGFR1 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	PCR	<a href="#">AA-M-016-19</a>
BIRC3 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
BPGM <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
BRAF <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
BRAF <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	Real time PCR	AA-M-009-32

Analyte (measured variable)	Examination material (input material; if necessary test material)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
BTK <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
CALR <sup>2</sup>	RNA, DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA, DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
CARD11 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
CBFB-MYH11 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	PCR	AA-M-015-17, <a href="#">AA-M-016-19</a>
CBFB-MYH11 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	Real time PCR	AA-M-009-32
CBL <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
CCL22 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
CDKN2A <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)

Analyte (measured variable)	Examination material (input material; if necessary test material)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
CEBPA <sup>2,3</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
Chimerism <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Fragment analysis	AA-M-003-25
CREBBP <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
CRLF2 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
CRLF2 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	Real time PCR	<a href="#">AA-M-041-35</a>
CSF3R <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
CSNK1A1 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
CUX <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)

Analyte (measured variable)	Examination material (input material; if necessary test material)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
CXCR4 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
CyclinD1 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	Real time PCR	AA-M-009-32
DDX41 <sup>2,3</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
DEK-NUP214 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	PCR	<a href="#">AA-M-016-19</a>
DEK-NUP214 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	Real time PCR	AA-M-009-32
DNMT3A <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	digital PCR	<a href="#">AA-M-148-15</a>
DNMT3A <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
DPYD <sup>2</sup>	DNA, peripheral blood; DNA	Melting curves	AA-M-176-04
EGLN1 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)



Analyte (measured variable)	Examination material (input material; if necessary test material)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
EGR2 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
ELANE <sup>3</sup>	DNA, peripheral blood; DNA	Next Generation Sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
EP300 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
EP300-ZNF384 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	PCR	AA-M-016-19
EPAS1 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
EPO <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
EPOR <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
ETNK1 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
ETV6 <sup>2,3</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)

Analyte (measured variable)	Examination material (input material; if necessary test material)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
ETV6-ABL1 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	PCR	AA-M-016-19
ETV6-ABL1 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	Real time PCR	AA-M-009-32
ETV6-MECOM <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	PCR	AA-M-015-17, AA-M-016-19
ETV6-PDGFRB <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	PCR	AA-M-015-17, AA-M-016-19
ETV6-RUNX1 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	PCR	AA-M-015-17, AA-M-016-19
ETV6-RUNX1 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	Real time PCR	AA-M-009-32
EZH2 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
Expression analysis for grouping B-ALL	RNA, bone marrow aspirates, peripheral blood; RNA	Next generation sequencing (sequencing-by-synthesis, RNA sequencing, cufflinks)	AA-M-146-09; RNA-Seq Workflow (OA-M-015-06), NEBNext Ultra II Directional RNA Library Prep (VB-M- 264-01); Grouping (VB-M-273-01)

Analyte (measured variable)	Examination material (input material; if necessary test material)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
FBXW7 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
FIP1L1-PDGFR <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	PCR	AA-M-015-17, <a href="#">AA-M-016-19</a>
FLT3 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
FLT3 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	digital PCR	<a href="#">AA-M-148-15</a>
FLT3-ITD <sup>2</sup>	RNA, DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA, DNA	Fragment analysis	<a href="#">AA-M-137-15</a>
FOXO1 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
GATA1 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
GATA2 <sup>2,3</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)

Analyte (measured variable)	Examination material (input material; if necessary test material)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
GNAS <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
Gene panel "Lymphatic diseases" (ARID1A, ATM, ATR, BCL10, BCL2, BIRC3, BRAF, BTK, CARD11, CCL22, CCND1, CD28, CD79B, CREBBP, CXCR4, DIS3, DNMT3A, EGR1, EP300, ETV6, EZH2, FBXW7, FLT3, FOXO1, FYN, ID3, IDH2, IKZF1, IL7R, IRF4, JAK1, JAK2, JAK3, KLF2, KLHL6, KMT2D, KRAS, MAP2K1, MEF2B, MYC, MYD88, NOTCH1, NOTCH2, NRAS, PAX5, PHF6, PLCG1, PLCG2, POT1, PTEN, RHOA, RPS15, RUNX1, SF3B1, SGK1, SOCS1, STAT3, STAT5B, STAT6, TET2, TNFAIP3, TP53, UBR5, VAV1, XPO1, ZEB2) <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, sequence capture, pisces)	<a href="#">AA-M-154-24</a> , AA-M-158-22; IDT Enrichment Pipeline (OA-M-014-10); Nextera Flex IDT Panel ( <a href="#">VB-M-224-03</a> )

Analyte (measured variable)	Examination material (input material; if necessary test material)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
Gene panel "Myeloid diseases" (ASXL1, ASXL2, ATRX, BCOR, BCORL1, BRAF, CALR, CBL, CEBPA, CSF3R, CSNK1A1, CUX1, DDX41, DNMT3A, ETNK1, ETV6, EZH2, FBXW7, FLT3, FLT3-ITD, GATA1, GATA2, GNB1, IDH1, IDH2, IL6R, JAK2, KIT, KRAS, MPL, MYD88, NF1, NOTCH1, NPM1, NRAS, PDGFRA, PDGFRB, PHF6, PIGA, PPM1D, PRPF8, PTEN, PTPN11, RAD21, RUNX1, SETBP1, SF1, SF3A1, SF3B1, SH2B3, SMC1A, SMC3, SRSF2, STAG2, SUZ12, TET2, TP53, U2AF1, U2AF2, UBA1, WT1, ZEB2, ZRSR2) <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next Generation Sequencing (sequencing-by-synthesis, sequence capture, Pisces, Pindel)	AA-M-154-24, AA-M-158-22; IDT Enrichment Pipeline (OA-M-014-10); Nextera Flex IDT Panel (VB-M-224-03)
Gene Panel "ITP - Myeloid Diseases" (ASXL1, ASXL2, ATRX, BCOR, BCORL1, BRAF, CALR, CBL, CEBPA, CSF3R, CSNK1A1, CUX1, DIS3, DDX41, DNMT3A, ETNK1, ETV6, EZH2, FAT1, FBXW7, FLT3, FLT3-ITD, GATA1, GATA2, GNB1, IDH1, IDH2, IL6R, JAK2, KIT, KRAS, MPL, MYD88, NF1, NOTCH1, NOTCH2, NPM1, NRAS, PDGFRA, PDGFRB, PHF6, PIGA, PPM1D, PRPF8, PTEN, PTPN11, RELN, RAD21, RUNX1, SETBP1, SF1, SF3A1, SF3B1, SH2B3, SMC1A, SMC3, SRSF2, STAG2, SUZ12, TET2, TP53, U2AF1, U2AF2, UBA1, WT1, ZEB2, ZRSR2) <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next Generation Sequencing (sequencing-by-synthesis, sequence capture, Pisces, Pindel)	AA-M-154-24, AA-M-158-22; IDT Enrichment Pipeline (OA-M-014-10); Nextera Flex IDT Panel (VB-M-224-03)

Analyte (measured variable)	Examination material (input material; if necessary test material)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
H4-PDGFRB <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	PCR	AA-M-015-17, <a href="#">AA-M-016-19</a>
HbA <sup>3</sup>	DNA, peripheral blood; DNA	MLPA	AA-M-195-07
HbB <sup>3</sup>	DNA, peripheral blood; DNA	MLPA	AA-M-195-07
HFE <sup>3</sup>	DNA, peripheral blood; DNA	Next Generation Sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
HRAS <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
ID3 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
IDH1 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
IDH1 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	digital PCR	<a href="#">AA-M-148-15</a>
IDH2 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
IDH2 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	digital PCR	<a href="#">AA-M-148-15</a>

Analyte (measured variable)	Examination material (input material; if necessary test material)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
IGH-BCL2 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	PCR	AA-M-016-19
IGH-BCL2 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Real time PCR	AA-M-009-32
IGH-CCND1 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	PCR	AA-M-016-19
IGHV <sup>2</sup>	RNA, DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA, DNA	Fragment analysis, Sanger sequencing	AA-M-008-32
IKZF1 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Fragment analysis	AA-M-078-08
IKZF1 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
IKZF1 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Real time PCR	AA-M-063-11
JAK1 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)

Analyte (measured variable)	Examination material (input material; if necessary test material)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
JAK2 <sup>2</sup>	RNA, DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA, DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
JAK2 <sup>2</sup>	RNA, DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA, DNA	Real time PCR	AA-M-009-32
JAK3 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
KIT <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
KIT <sup>2</sup>	RNA, DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA, DNA	Real time PCR	AA-M-009-32, <a href="#">AA-M-041-35</a>
KLF2 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
KLHL6 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
KMT2A-AFF1 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	PCR	AA-M-015-17, <a href="#">AA-M-016-19</a>



Analyte (measured variable)	Examination material (input material; if necessary test material)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
KMT2A-AFF1 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	Real time PCR	AA-M-009-32
KMT2A-ARHGEF12 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	PCR	AA-M-016-19
KMT2A-CBL <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	PCR	AA-M-016-19
KMT2A-ELL <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	PCR	AA-M-016-19
KMT2A-ELL <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	Real time PCR	AA-M-009-32
KMT2A-MLLT1 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	PCR	AA-M-016-19
KMT2A-MLLT1 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	Real time PCR	AA-M-009-32
KMT2A-MLLT1 exon6 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	PCR	AA-M-016-19

Analyte (measured variable)	Examination material (input material; if necessary test material)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
KMT2A-MLLT10 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	PCR	AA-M-016-19
KMT2A-MLLT10 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	Real time PCR	AA-M-009-32
KMT2A-MLLT3 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	PCR	AA-M-015-17, AA-M-016-19
KMT2A-MLLT3 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	Real time PCR	AA-M-009-32
KMT2A-MLLT4 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	PCR	AA-M-016-19
KMT2A-MLLT4 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	Real time PCR	AA-M-009-32
KMT2A-MLLT6 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	Real time PCR	AA-M-009-32
KMT2A-PTD <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	Real time PCR	AA-M-009-32

Analyte (measured variable)	Examination material (input material; if necessary test material)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
KRAS <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
MAP2K1 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
MAPK1 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
MECOM <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	Real time PCR	AA-M-009-32
MEF2B <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
MPL <sup>2</sup>	RNA, DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA, DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
MYC <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
MYD88 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)

Analyte (measured variable)	Examination material (input material; if necessary test material)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
MYD88 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	Real time PCR	AA-M-009-32
KAT6A-CREBBP <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	PCR	AA-M-016-19
NF1 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
NFKBIE <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
NOTCH1 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
NOTCH2 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
NPM1 <sup>2</sup>	RNA, DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA, DNA	Fragment analysis	AA-M-006-15
NPM1 <sup>2</sup>	RNA, DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA, DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)

Analyte (measured variable)	Examination material (input material; if necessary test material)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
NPM1 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	Real time PCR, digital PCR	AA-M-041-35, AA-M-148-15
NPM1-MLF1 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	PCR	AA-M-016-19
NRAS <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
NUP214-ABL1 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	PCR	AA-M-016-19
NUP214-ABL1 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	Real time PCR	AA-M-009-32
NUP98-NSD1 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	PCR	AA-M-016-19
NUP98-NSD1 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	Real time PCR	AA-M-009-32
PAX5 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)

Analyte (measured variable)	Examination material (input material; if necessary test material)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
PCM1-JAK2 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	PCR	AA-M-015-17, <a href="#">AA-M-016-19</a>
PDGFRA <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	Real time PCR	AA-M-009-32
PDGFRB <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	Real time PCR	AA-M-009-32
PHF6 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
PICALM-MLLT10 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	PCR	AA-M-015-17, <a href="#">AA-M-016-19</a>
PIGA <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
PLCG2 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19
PML-RARA <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	PCR	AA-M-015-17, <a href="#">AA-M-016-19</a>

Analyte (measured variable)	Examination material (input material; if necessary test material)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
PML-RARA <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	Real time PCR	AA-M-009-32, AA-M-066-22
POT1 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
PPM1D <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
PRPF8 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
PTEN <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
PTPN11 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
RAD21 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
RPS15 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)

Analyte (measured variable)	Examination material (input material; if necessary test material)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
RUNX1 <sup>2,3</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
RUNX1-RUNX1T1 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	PCR	<a href="#">AA-M-016-19</a>
RUNX1-RUNX1T1 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	Real time PCR	AA-M-009-32
SAMHD1 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
SETBP1 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
SETD2 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
SET-NUP214 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	PCR	AA-M-015-17, <a href="#">AA-M-016-19</a>
SF3A1 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)



Analyte (measured variable)	Examination material (input material; if necessary test material)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
SF3B1 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
SF3B1 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	digital PCR	AA-M-148-15
SH2B3 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
SMC1A <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
SOX11 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	Real time PCR	AA-M-009-32
SRSF2 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
STAG2 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
STAT3 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)

Analyte (measured variable)	Examination material (input material; if necessary test material)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
STAT5B <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
STIL-TAL1 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	PCR	AA-M-015-17, <a href="#">AA-M-016-19</a>
TCF3 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
TCF3-HLF <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	PCR	<a href="#">AA-M-016-19</a>
TCF3-PBX1 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	PCR	<a href="#">AA-M-016-19</a>
TCF3-PBX1 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	Real time PCR	AA-M-009-32
TCR <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Sanger sequencing, Real time PCR	AA-M-063-11
TRB <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next Generation Sequencing (sequencing-by-synthesis, amplicon-based, LymphoTrack® Dx MiSeq Data Analysis)	<a href="#">AA-M-198-10</a> ; T-Cell receptor clonality analysis using NGS (VB-M-252-01)

Analyte (measured variable)	Examination material (input material; if necessary test material)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
TRG <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next Generation Sequencing (sequencing-by-synthesis, amplicon-based, LymphoTrack® Dx MiSeq Data Analysis)	AA-M-198-10; T-Cell receptor clonality analysis using NGS (VB-M-252-01)
TERC <sup>2,3</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
TERT <sup>2,3</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
TET2 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
TP53 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
TP53 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	digital PCR	AA-M-148-15
TPSAB1 <sup>3</sup>	DNA, peripheral blood; DNA	digital PCR CNV analysis	AA-M-186-10
U2AF1 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
U2AF2 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)

Analyte (measured variable)	Examination material (input material; if necessary test material)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
UBA1 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
UBR5 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
VHL <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
WDR48-PDGFRB <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	PCR	AA-M-016-19
WT1 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
WT1 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	Real time PCR	AA-M-041-35
XPO1 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
ZBTB16-RARA <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	PCR	AA-M-016-19

Analyte (measured variable)	Examination material (input material; if necessary test material)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
ZBTB16-RARA <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	Real time PCR	AA-M-009-32
ZNF198-FGFR1 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	PCR	AA-M-016-19
ZNF198-FGFR1 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; cDNA	Real time PCR	AA-M-009-32
ZRSR2 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-19; Illumina NGS Amplicon Pipeline (OA-M-002-07)
Gene Panel "Familial Erythrocytosis - Screening" (BHLHE41, BPGM, EGLN1, EGLN2, EGLN3, EPAS1, EPO, EPOR, GFI1B, HBA1, HBA2, HBB, HIF1A, HIF1AN, HIF3A, JAK2, KDM6A, OS9, SH2B3, VHL, ZNF197) <sup>3 3</sup>	DNA, peripheral blood; DNA	Next generation sequencing (sequencing-by-synthesis, exome sequencing, sequence capture, pisces)	AA-M-154-24, AA-M-158-22; IDT Enrichment Pipeline (OA-M-014-10); Nextera Flex IDT Panel (VB-M-224-03)

Analyte (measured variable)	Examination material (input material; if necessary test material)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
<p>Hematologic Neoplasia" gene panel (ARID1A,ASXL1,ASXL2,ATM, ATR, ATRX,BCL2,BCL10,BCOR,BCORL1,BIRC3,BRAF,BTK,CALR,CARD11,CBL,CCL22,CCND1,CD28, CD79B,CEBPA,CREBBP,CSF3R,CSNK1A1,CUX1,CXCR4,DDX41,DIS3,DNMT3A,EGR1,EP300,ETNK1,ETV6,EZH2,FBXW7,FLT3,FLT3 - ITD,FOXO1,FYN,GATA1,GATA2,GNB1, ID3,IDH1,IDH2,IKZF1,IL6R,IL7R,IRF4, JAK1,JAK2,JAK3,KIT,KLF2,KLHL6,KMT2D, KRAS,MAP2K1,MEF2B,MPL,MYC,MYD88,NF1,NOTCH1,NOTCH2,NPM1,NRAS PAX5,PDGFRA,PDGFRB,PHF6,PIGA,PLCG1,PLCG2,POT1,PPM1D,PRPF8,PTE N,PTPN11,RAD21,RB4,RHOA,RPS15,RUNX1,SETBP1,SF1,SF3A1,SF3B1,SGK1,SH2B3,SMC1A,SMC3,SOCS1,SRSF2,STATG2,STAT3,STAT5B,STAT6,SUZ12,TET2, TNFAIP3,TP53,U2AF1,U2AF2,UBA1,UBR5,VAF1,WT1,XPO1,ZEB2,ZRSR2)<sup>2</sup></p>	<p>DNA, bone marrow aspirates, peripheral blood, body fluids, tissue<sup>1</sup> ; DNA</p>	<p>Next generation sequencing (sequencing-by-synthesis, whole genome sequencing, Strelka/Pindel)</p>	<p>AA-M-145-09; WGS Workflow (OA-M-016-08); TruSeq DNA PCR-Free LibraryPrep Kit (VB-M-029-08)</p>

Analyte (measured variable)	Examination material (input material; if necessary test material)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
Gene Panel "Hematologic Neoplasia" (ARID1A,ASXL1,ASXL2,ATM, ATR, ATRX,BCL2,BCL10,BCOR,BCORL1,BIRC3,BRAF,BTK,CALR,CARD11,CBL,CCL22,CCND1,CD28,CD79B,CEBPA,CREBBP,CSF3R,CSNK1A1,CUX1,CXCR4,DDX41,DIS3,DNMT3A,EGR1,EP300,ETNK1,ETV6,EZH2,FBXW7,FLT3,FLT3-ITD,FOXO1,FYN,GATA1,GATA2,GNB1,ILD3,IDH1,IDH2,IKZF1,IL6R,IL7R,IRF4,JAK1,JAK2,JAK3,KIT,KLF2,KLHL6,KMT2D,KRAS,MAP2K1,MEF2B,MPL,MYC,MYD88,NF1,NOTCH1,NOTCH2,NPM1,NRASPAX5,PDGFRA,PDGFRB,PHF6,PIGA,PLCG1,PLCG2,POT1,PPM1D,PRPF8,PTEN,PTPN11,RAD21,RHOA,RPS15,RUNX1,SETBP1,SF1,SF3A1,SF3B1,SGK1,SH2B3,SMC1A,SMC3,SOCS1,SRSF2,STAG2,STAT3,STAT5B,STAT6,SUZ12,TET2,TNFAIP3,TP53,U2AF1,U2AF2,UBA1,UBR5,VAF1,WT1,XPO1,ZEB2,ZRSR2) <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; THEN	Next Generation Sequencing (sequencing-by-synthesis, exome sequencing, sequence capture, Pisces, Pindel)	AA-M-153-06, AA-M-158-22, AA-M-154-24; IDT Enrichment Pipeline (OA-M-014-10); TruSeq DNA Exome LibraryPrep Kit with IDT (VB-M-032-02)
Hemoglobinopathies" (HBA1, HBA2, HBB) gene panel	DNA, peripheral blood; DNA	Next Generation Sequencing (sequencing-by-synthesis, sequence capture, Pisces, Pindel)	AA-M-154-24, AA-M-158-22; IDT Enrichment Pipeline (OA-M-014-10); Nextera Flex IDT-HB Panel (VB-M-243-01)
Chromosome number (CNV, Copy Number Variation) <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, whole genome sequencing, GATK)	AA-M-145-09; WGS Workflow (OA-M-016-08); TruSeq DNA PCR-Free LibraryPrep Kit (VB-M-029-08)

Analyte (measured variable)	Examination material (input material; if necessary test material)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
Fusion panel (CBFB-MYH11, EP300-ZNF384, ETV6-RUNX1, RUNX1-RUNX1T1, TCF3-PBX1) <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood; RNA	Next generation sequencing (sequencing-by-synthesis, RNA sequencing, Manta)	AA-M-146-09; RNA-Seq Workflow (OA-M-015-06), NEBNext Ultra II Directional RNA Library Prep (VB-M-264-01)
SV-Panel (t(8;21)(q22;q22),inv(16)(p13q22),t(16;16)(p13;q22),t(15;17)(q24;q21),t(1;19)(q23;p13),t(1;3)(p36;q21),t(10;11)(p12;q23)/KMT2A-MLLT10,t(10;14)(q24;q11),t(11;14)(q13;q32),t(11;19)(q23;p13.1)/KMT2A-ELL,t(11;19)(q23;p13.3)/KMT2A-MLLT1,t(12;21)(p13;q22),inv(14)(q11q32),t(14;14)(q11;q32),t(14;18)(q32;q21),t(14;18)(q32;q21) Mehrwege,t(14;19)(q32;q13.32),t(14;19)(q32;q13.11),t(2;11)(p21;q24.1),t(2;7)(p11;q21),t(3;14)(q27.3;q32),t(3;21)(q26;q11),t(8;14)(q24;q32),inv(3)(q21q26),t(4;11)(q21;q23),t(5;12)(q33;p13),t(6;11)(q27;q23),t(6;9)(p23;q34),t(8;13)(p11;q12),t(8;22)(q24;q11),t(8;22)(p11;q11),t(8;9)(p22;p24),t(9;11)(p21;q23),t(9;14)(p13;q32),t(9;22)(q34;q11),t(X;14)(p22;q32),t(X;14)(q28;q11)) <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, whole genome sequencing, manta)	AA-M-145-09; WGS Workflow (OA-M-016-08); TruSeq DNA PCR-Free LibraryPrep Kit (VB-M-029-08)



Field of investigation: Human genetics (cytogenetics)

Type of examination:

Chromosome analysis\*:

Analyte (measured variable)	Examination material (input material; if necessary test material)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
Acquired chromosome set	Bone marrow, peripheral blood	Chromosome banding analysis	AA-C-001-65, AA-C-003-18, AA-C-005-19, AA-C-006-35, AA-C-007-06, AA-C-008-09
Acquired chromosome set	Bone marrow, peripheral blood	FISH with locus-specific and centromere-specific probes on metaphases and interphases, chromosome painting on metaphases, 24-color-Karyotyping on metaphases	AA-C-001-65, AA-F-006-19, AA-F-007-23, AA-F-008-20, AA-F-010-08, AA-F-011-14, AA-F-012-06

<sup>1</sup> The samples are processed and analyzed by the laboratory without prior histological evaluation.

<sup>2</sup> Identification of clonality markers or genetic changes in hematologic neoplasms

<sup>3</sup> Detection of hereditary changes