



| ردیف | Test | کلیدواژه keyword | ID | روش انجام method | نوع نمونه sample | حجم نمونه volume | شرایط نگهداری storage | زمان جوابدهی(روز) TAT (Day) | مدارک موردنیاز document | نیاز به مشاوره قبل از انجام آزمایش دارد؟ Pre test counseling | نیاز به مشاوره بعد از انجام آزمایش دارد؟ Post test counseling | قابلیت اورژانس دارد؟ Does it have an emergency function |
|------|--------------------------------|---|-------------------------|---|------------------------------------|------------------------------------|--------------------------|-----------------------------------|---|--|---|--|
| 1 | Achondroplasia | Diagnosis, FGFR3, Mutation Germline | Mol- Gene Sequencing | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 14 | Radiography/ medical impression/ reports | Y | Y | N |
| 2 | ALK Common Somatic Mutation | Somatic Mutation, Neuroblastoma | Mol- Trans | Sanger Sequencing | PBE or DNA or paraffin block | 5-10 ml/> 20% Tumoral Tissue | 2-8 °C | 14 | Pathology report/ Patient clinical information/ Form TE-REX-FO-097 | N | N | N |
| 3 | Alpha Thal Female | Alpha Globin, Carrier Detection, Hematologic diseases, Alpha Thalassemia | Mol- Thalasemia | Sanger Sequencing- Multiplex PCR | PBE or DNA | 5-10 ml | 2-8 °C | 30 | CBC- Hb Electrophoresis-Ferritin | Y | N | N |
| 4 | Alpha Thal Male | Alpha Globin, Carrier Detection, Hematologic diseases, Alpha Thalassemia | Mol- Thalasemia | Sanger Sequencing- Multiplex PCR | PBE or DNA | 5-10 ml | 2-8 °C | 30 | CBC- Hb Electrophoresis-Ferritin | Y | N | N |
| 5 | Alpha Thal Other | Alpha Globin, Carrier Detection, Hematologic diseases, Alpha Thalassemia | Mol- Thalasemia | Sanger Sequencing- Multiplex PCR | PBE or DNA | 5-10 ml | 2-8 °C | 30 | CBC- Hb Electrophoresis-Ferritin | Y | N | N |
| 6 | Alpha-Beta-XMN | Alpha Globin, Beta- Globin, Thalassemia, Hematologic diseases, Thalassemia Diagnosis, Thalassemia Major | Mol- Thalasemia | Sanger Sequencing- ARMS PCR- Multiplex PCR | PBE or DNA | 5-10 ml | 2-8 °C | 30 | CBC- Hb Electrophoresis-Ferritin- Medical impression- Transfusion dependency | Y | N | N |

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| 7 | ASXL1 Common Somatic Mutation | ASXL1, Somatic Mutation, Cancer, Myeloproliferative Neoplasms, (MPN) | Mol- Trans | Sanger Sequencing | PBE or DNA or paraffin block | 5-10 ml/> 20% Tumoral Tissue | 2-8 °C | 14 | medical impression/ reports/Pathology Reports/prescription | N | by the attending physician | N |
| 8 | ATRX Common Somatic Mutation | ATRX, Somatic Mutation, Nervous System Cancer | Mol- Trans | Sanger Sequencing | PBE or DNA or paraffin block | 5-10 ml/> 20% Tumoral Tissue | 2-8 °C | 14 | medical impression/ reports/Pathology Reports/prescription | N | by the attending physician | N |
| 9 | Beta Thal Female | Beta-Globin, Thalassemia; Hematologic diseases | Mol- Thalasemia | Sanger Sequencing- ARMS PCR | PBE or DNA | 5-10 ml | 2-8 °C | 30 | CBC- Hb Electrophoresis-Ferritin | Y | N | N |
| 10 | Beta Thal Male | Beta-Globin, Thalassemia; Hematologic diseases | Mol- Thalasemia | Sanger Sequencing- ARMS PCR | PBE or DNA | 5-10 ml | 2-8 °C | 30 | CBC- Hb Electrophoresis-Ferritin | Y | N | N |
| 11 | Beta Thal Other | Beta-Globin, Thalassemia; Hematologic diseases | Mol- Thalasemia | Sanger Sequencing- ARMS PCR | PBE or DNA | 5-10 ml | 2-8 °C | 30 | CBC- Hb Electrophoresis-Ferritin | Y | N | N |
| 12 | BRAF Mutation (Tissue) | BRAF, V600, Exon15, Somatic Mutation Nervous System Cancer, Melanoma, Colorectal Cancer, Lymphoma, Hairy cell leukemia | Mol- Trans | Sanger Sequencing | Tis or DNA or FFPE | 5-10 ml/> 20% Tumoral Tissue | 2-8 °C | 7 | medical impression/ reports/Pathology Reports/prescription | N | by the attending physician | N |
| 13 | CAH-Strip Assay | Diagnosis, big genitalia, CAH, Congenital adrenal hyperplasia | Mol- Others | Reverse Strip Assay | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports/Pathology Reports/prescription | Y | Y | N |

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| 14 | CALR | CALR, Somatic Mutation, Myeloproliferative Neoplasms (MPN), Cancer | Mol- Trans | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 14 | Prescription, medical impression, CBC / reports | N | by the attending physician | N |
| 15 | CEBPA Common Somatic Mutation | CEBPA, Somatic Mutation, Acute Myeloid Leukemia (AML), Cancer | Mol- Trans | Sanger Sequencing | PBE or DNA or paraffin block | 5-10 ml/> 20% Tumoral Tissue | 2-8 °C | 14 | medical impression/ reports/Pathology Reports/prescription | N | by the attending physician | N |
| 16 | CF Common Mutation Female | CFTR gene (Cystic Fibrosis) | Mol- Others | Reverse Strip Assay | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports | Y | Y | N |
| 18 | CF Common Mutation Other | CFTR gene (Cystic Fibrosis) | Mol- Others | Reverse Strip Assay | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports | Y | Y | N |
| 19 | CKIT | CKIT, Somatic Mutation, Acute Myeloid Leukemia (AML), Myeloproliferative Neoplasms (MPN),Sarcoma, Melanoma, Cancer | Mol- Trans | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports/Pathology Reports/prescription | N | by the attending physician | N |
| 20 | CKIT-Tissue | CKIT, Somatic Mutation, Gastric Cancer, GIST , Cancer | Mol- Trans | Sanger Sequencing | Tis or DNA or FFPE | > 20% Tumoral Tissue | 2-8 °C | 14 | medical impression/ reports/Pathology Reports/prescription | N | by the attending physician | N |

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| 21 | Clotting Panel | MTHFR (A1298C) (C677T), PAI, FV;FXIII(V34L in Factor XIII gene), Prothrombin (Factor II) (G20210A). | Mol- Others | Reverse Strip Assay | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports | N | by the attending physician | N |
| 22 | Connexin 26 Female | GJB2- Connexin26- 35Del G, Diagnosis, Carrier Detection | Mol- Gene Sequencing | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 30 | Audiometry result | Y | Y | N |
| 23 | Connexin 26 Male | GJB2- Connexin26- 35Del G, Diagnosis, Carrier Detection | Mol- Gene Sequencing | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 30 | Audiometry result | Y | Y | N |
| 24 | Connexin 26 Other | GJB2- Connexin26- 35Del G, Diagnosis, Carrier Detection | Mol- Gene Sequencing | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 30 | Audiometry result | Y | Y | N |
| 25 | Connexin 30 | GJB6- Connexin30, Diagnosis, Carrier | Mol- Gene Sequencing | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 30 | Audiometry result | Y | Y | N |
| 26 | DM1 | DM1 | Mol- Others | Fragment Analysis | PBE or DNA | 5-10 ml | 2-8 °C | 30 | medical impression/ reports | Y | Y | N |
| 27 | DNA Bank | DNA Bank | Mol- Extraction | DNA Extraction | PBE or Tis | 5-10 ml Blood or 20% Tumoral Tissue | 2-8 °C | 1095 | Prescription | Y | Y | N |
| 28 | DNA Collection- mouth swab | | Mol- Extraction | DNA Extraction | | | 2-8 °C | | | Y | N | N |



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| 29 | DNA-Extraction- Report | Checking of Quality and Quantity of DNA | Mol- Extraction | DNA Extraction | PBE or Tis | 5-10 ml Blood or 20% Tumoral Tissue | 2-8 °C | 3 | medical impression/ reports | Y | N | N |
| 30 | DNMT3A Common Somatic Mutation | DNMT3A, Common Somatic Mutation, Pharmacogenetics, Myeloproliferative Neoplasms (MPN), Acute Myeloi Leukemia (AML) | Mol- Trans | Sanger Sequencing | PBE or Tis or DNA or FFPE | 5-10 ml/> 20% Tumoral Tissue | 2-8 °C | 14 | medical impression/ reports/Pathology Reports/prescription | N | by the attending physician | N |
| 31 | DPYD (5-fu) | colorectal cancer , Solid tumor , IVS14+1G>A | Mol- Others | Reverse Strip Assay | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports | N | by the attending physician | N |
| 32 | Duchenne-Ind | Duchenne Muscular Dystrophy, DMD, BMD, Dystrophin. Deletion /Duplication, Diagnosis, Carrier Detection | Mol- Others | MLPA | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports | Y | Y | N |
| 33 | EGFR | Lung Cancer, Non Small Cell Carcinoma, Somatic Mutation, Exon18, 19, 20, 21 | Mol- Trans | Sanger Sequencing/ Reverse Strip Assay | Tis or DNA or FFPE | > 20% Tumoral Tissue | 2-8 °C | 7 | medical impression/ reports/Pathology Reports/prescription | N | N | N |
| 34 | ESR1 | Breast cancer, Prostat cancer, Estrogen receptor | Mol- Trans | Sanger Sequencing | Tis or FFPE | > 20% Tumoral Tissue | 2-8 °C | 14 | medical impression/ reports/Pathology Reports/prescription | N | N | N |



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| 35 | Factor XIII | FXIII(V34L in Factor XIII gene, Diagnosis, Carrier Detection | Mol- Others | Sanger Sequencing/ Reverse Strip Assay | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports | N | N | N |
| 36 | Factor-V (Leiden) | Factor-V (Leiden) - G1691A | Mol- Others | Sanger Sequencing/ Reverse Strip Assay | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports | N | N | N |
| 37 | FancA-Seq-MLPA | FancA. Fanconi anemi, Germline Mutation | Mol- Gene Sequencing | Sanger Sequencing/MLPA | PBE or DNA | 5-10 ml | 2-8 °C | 60 | medical impression/ reports | Y | Y | N |
| 38 | FAP (APC gene mutation analysis) | Cancer, Pericardial, Peritoneal, Screening, Slide, Urine | Mol- Gene Sequencing | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 60 | - | Y | by the attending physician | N |
| 39 | FLT-3 | FLT3-Acute MyeloidLeukemia (AML), FLT3-ITD, FLT3-835-Somatic Mutation | Mol- Trans | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 14 | CBC/medical impression/ reports/Pathology Reports/prescription | N | by the attending physician | N |
| 40 | FMF | FMF-Familial Mediterranean Fever, MeFv Mutation, Common Mutation, Diagnosis, Carrier Detection | Mol- Others | Reverse Strip Assay | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports | N | Y | N |
| 41 | Fragment Reaction | Diagnostic test/ Research | Mol- Sequencing | Fragment Analysis | PCR Product | 25UL | 2-8 °C | 3 | لیبل نمونه روی میکروتیوپ و اطلاعات فرگمنت در اکسل ارسالی | N | N | N |



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| 42 | Fragment Run | Diagnostic test/ Research | Mol- Sequencing | Fragment Analysis | PCR Product | 25UL | 2-8 °C | 3 | لیبل نمونه روی میکروتیوپ و اطلاعات فرگمنت در اکسل ارسالی | N | N | N |
| 43 | FraX-Mol | FraX, Premature Ovarian Failure (POF), X link Syndromic Mental Retardation, Diadnosis, Carrier Detection | Mol- Others | PCR- Fragment Analysis/Southern | PBE or DNA | 5-10 ml | 2-8 °C | 30 | medical impression/ reports | Y | Y | N |
| 44 | Friedreich's ataxia | FXN, GAA Expanation, Friedreich's ataxia | Mol- Others | PCR- Fragment Analysis | PBE or DNA | 5-10 ml | 2-8 °C | 30 | medical impression/ reports | Y | Y | N |
| 45 | GATA Common Somatic Mutation | Common Somatic Variant, Myeloproliferative | Mol- Trans | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports/Pathology Reports/prescription | N | Y | N |
| 46 | Gaucher | GBA gene;beta- glucocerebrosidase, Dagnosis, Carrier Detection | Mol- Others | Reverse Strip Assay | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports | N | Y | N |
| 47 | Gene Seq 02-05 Exon | Gemline Mutation, Diagnosis, Carrier Detection | Mol- Gene Sequencing | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 30 | Prescription, medical impression/ reports | Y | Y | N |
| 48 | Gene Seq 06-10 Exon | Gemline Mutation, Diagnosis, Carrier Detection | Mol- Gene Sequencing | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 30 | medical impression/ reports | Y | Y | N |

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| 49 | Gene Seq 11-25 Exon | Gemline Mutation, Diagnosis, Carrier Detection | Mol- Gene Sequencing | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 60 | medical impression/ reports | Y | Y | N |
| 50 | Gene Seq 26-50 Exon | Gemline Mutation, Diagnosis, Carrier Detection | Mol- Gene Sequencing | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 60 | medical impression/ reports | Y | Y | N |
| 51 | H3F3A Common Somatic Mutation | H3F3A, Common Somatic Mutation, Pharmacogenetics, Nervous System Cancer, Cancer | Mol- Trans | Sanger Sequencing | Tis or DNA or FFPE | > 20% Tumoral Tissue | 2-8 °C | 14 | medical impression/ reports/Pathology Reports/prescription | N | by the attending physician | N |
| 52 | Hemochromatosis | HFE, Diagnosis, Carrier Detection | Mol- Others | Reverse Strip Assay | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports | Y | Y | N |
| 53 | Hemophilia A- Inversion 22 | Inversion 22 | Mol- Gene Sequencing | Long Range PCR | PBE or DNA | 5-10 ml | 2-8 °C | 30 | medical impression/ reports/Pathology Reports/prescription | Y | Y | N |
| 54 | Hemophilia A- Sequencing | Sequencing | Mol- Gene Sequencing | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 60 | medical impression/ reports/Pathology Reports/prescription | Y | Y | N |
| 55 | Huntington | HTT gene, CAG Expanation, Huntington's disease (HD), autosomal dominant inheritanc | Mol- Others | PCR- Fragment Analysis | PBE or DNA | 5-10 ml | 2-8 °C | 30 | medical impression/ reports | Y | Y | N |
| 56 | Hypochondroplasia | FGFR3, Germline Mutation, Diagnosis, Carrier Detection | Mol- Gene Sequencing | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports | Y | Y | N |

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| 57 | IDH1 Common Somatic Mutation | IDH1, Somatic Mutation, Nervous system Cancer, Myeloproliferative Neoplasms (MPN) | Mol- Trans | Sanger Sequencing | Tis or DNA or FFPE | > 20% Tumoral Tissue | 2-8 °C | 7 | medical impression/ reports/Pathology Reports/prescription | N | by the attending physician | N |
| 58 | IDH2 Common Somatic Mutation | IDH2, Somatic Mutation, Nervous system Cancer, Myeloproliferative Neoplasms (MPN) | Mol- Trans | Sanger Sequencing | Tis or DNA or FFPE | > 20% Tumoral Tissue | 2-8 °C | 7 | medical impression/ reports/Pathology Reports/prescription | N | by the attending physician | N |
| 59 | Imatinib Resistance | CML, T315I, resistance to tyrosine kinase inhibitor (TKI) therapy, UGT1A1*28 genotype, | Mol- Trans | Sanger Sequencing | PBE or cDNA | 5-10 ml | 2-8 °C | 14 | CBC/ Prescription/ medical impression/ reports | N | by the attending physician | N |
| 60 | Irinotecan Toxicity | Pharmacogenomics, Pancreatic Neoplasms, Colorectal Neoplasms, | Mol- Others | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports | N | جواب غیر طبیعی | N |
| 61 | JAK2 Exon 12 | JAK2, Myeloproliferative Neoplasms (MPN), Leukemia, MPN | Mol- Trans | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 7 | CBC/ Prescription/ medical impression/ reports | N | by the attending physician | N |
| 62 | JAK2 gene v617F Mutation | JAK2, V617F, Leukemia, Myeloproliferative Neoplasms (MPN),CML,AML | Mol- Trans | Sanger Sequencing/ Real time PCR | PBE or DNA | 5-10 ml | 2-8 °C | 14 | CBC/ Prescription/ medical impression/ reports | N | by the attending physician | N |

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| 63 | K-RAS | KRAS Common Mutation, Exon 2, 3, 4, Codone 12-13.61-colorectal Cancer | Mol- Trans | Sanger Sequencing/ Reverse Strip Assay/Real time PCR | Tis Or DNA or FFPE | > 20% Tumoral Tissue | 2-8 °C | 7-10 | medical impression/ reports/Pathology Reports/prescription | N | by the attending physician | N |
| 64 | MCC+QF-PCR Aneuploidies | Maternal Cell Contamination | Mol- Trans | Fragment Analysis | AF/AFC/Tis/ PBE or DNA | 5-10 ml | 2-8 °C | 3 | Prescription/ medical impression/ reports | Y | Y | N |
| 65 | MCC-PND | Maternal Cell Contamination | Mol- Trans | Fragment Analysis | PBE or DNA | 5-10 ml | 2-8 °C | 3 | Prescription/ medical impression/ reports | Y | Y | N |
| 66 | MLPA- CAPN3 | MLPA- Large Deletion /Insertion, Diagnosis, Carrier Detection, CAPN3, CALpain3 | Mol- Others | MLPA | PBE or DNA | 5-10 ml | 2-8 °C | 14 | Prescription/ medical impression/ reports | Y | Y | N |
| 67 | MLPA- Celiac DQ2 & DQ8 | Celiac disease (HLA-DQ2/ HLA-DQ8) | Mol- Others | MLPA | PBE or DNA | 5-10 ml | 2-8 °C | 14 | Prescription/ medical impression/ reports | Y | N | N |
| 68 | MLPA-Alpha | MLPA, Alpha Thalassemia, Detection of copy number changes in the Alpha globin gene cluster | Mol- Thalasemia | MLPA | PBE or DNA or CV or AF or AFC | 5-10 ml | 2-8 °C | 14 | CBC- Hb Electrophoresis | Y | Y | N |
| 69 | MLPA- Aneuploidies | MLPA-Aneuploidies, QF, Down Syndrome | Mol- Others | MLPA | PBE or DNA or CV or AF or AFC | 5-10 ml | 2-8 °C | 7 | Prescription/ medical impression/ reports | Y | Y | N |



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| 70 | MLPA-Beta | MLPA, Delta-Beta Thalassemia, Detection of copy number changes in the Beta globin gene cluster | Mol- Thalasemia | MLPA | PBE or DNA or CV or AF or AFC | 5-10 ml | 2-8 °C | 14 | CBC- Hb Electrophoresis | Y | Y | N |
| 71 | MLPA-BRCA I- II | MLPA, Breast and Ovarian Cancer, Diagnosis, Carrier Detection | Mol- Others | MLPA | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports | Y | Y | N |
| 72 | MLPA-CLL | deletion, Insertion, Chronic lymphocytic leukemia | Mol- Trans | MLPA | PBE or DNA | 5-10 ml | 2-8 °C | 14 | Prescription/ medical impression/ reports | Y | Y | N |
| 73 | MLPA-CMT (Duplication- PMP22) | MLPA, Charcot-Marie-Tooth disease (CMT), HNPP, Diagnosis, Carrier Detection | Mol- Others | MLPA | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports | Y | Y | N |
| 74 | MLPA-Del/Dup I | MLPA- Large Deletion /Insertion, Diagnosis, Carrier Detection | Mol- Others | MLPA | PBE or DNA | 5-10 ml | 2-8 °C | 120 | medical impression/ reports | Y | Y | N |
| 75 | MLPA-MGMT Methylation | Hypermethylation, glioma | Mol- Trans | MLPA | Tis Or DNA or FFPE | > 20% Tumoral Tissue/5-10 ml | 2-8 °C | 14 | medical impression/ reports/Pathology Reports/prescription | N | by the attending physician | Y |

| ردیف | Test | کلیدواژه keyword | ID | روش انجام method | نوع نمونه sample | حجم نمونه volume | شرایط نگهداری storage | زمان جوابدهی(روز) TAT (Day) | مدارک موردنیاز document | نیاز به مشاوره قبل از انجام آزمایش دارد؟ Pre test counseling | نیاز به مشاوره بعد از انجام آزمایش دارد؟ Post test counseling | قابلیت اورژانس دارد؟ Does it have an emergency function |
|------|-------------------------|---|-------------|---------------------|---------------------|---------------------|--------------------------|-----------------------------------|--------------------------------|--|--|--|
| 76 | MLPA- Microdeletions | MLPA- Deletion /Insertion, Diagnosis, Carrier Detection1p36 deletion syndrome/2p16.1-p15 microdeletion syndrome/2q23.1 microdeletion/microdupli cation syndrome/Glass syndrome/3q29 microdeletion syndrome/3q29 microduplication syndrome/Wolf- Hirschhorn syndrome/Cri-du-Chat syndrome/Sotos syndrome/Williams- Beuren syndrome/Williams- Beuren duplication syndrome/Langer- Giedion syndrome/9q22.3 microdeletion syndrome/DiGeorge syndrome-2/Prader-Willi syndrome/Angelman syndrome/Witteveen- Kolk* / 15q24 microdeletion | Mol- Others | MLPA | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports | N | N | N |

| ردیف | Test | کلیدواژه keyword | ID | روش انجام method | نوع نمونه sample | حجم نمونه volume | شرایط نگهداری storage | زمان جوابدهی(روز) TAT (Day) | مدارک موردنیاز document | نیاز به مشاوره قبل از انجام آزمایش دارد؟ Pre test counseling | نیاز به مشاوره بعد از انجام آزمایش دارد؟ Post test counseling | قابلیت اورژانس دارد؟ Does it have an emergency function |
|------|---|--|-------------|---|------------------------|---------------------------------------|--------------------------|-----------------------------------|--|--|--|--|
| 77 | MLPA-MLH1-2,PMS2,MSH6 Hypermethylation | Hypermethylation, Somatic Mutation, Mis match repair gene, microsatellitic instability | Mol- Trans | MLPA | Tis Or DNA or FFPE | > 20% Tumoral Tissue/5-10 ml | 2-8 °C | 14 | medical impression/ reports/Pathology Reports/prescription | Y | by the attending physician | N |
| 78 | MLPA-Mutation CAH | Diagnosis, big genitalia, CAH, Congenital adrenal hyperplasia | Mol- Others | MLPA | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports/Pathology Reports/prescription | N | by the attending physician | N |
| 79 | MLPA-SGCA | Limb-girdle muscular dystrophy; MLPA- Large Deletion Duplication, Diagnosis, Carrier Detection | Mol- Others | MLPA | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports | Y | Y | N |
| 80 | MPL-Mutation | MPL, Somatic Mutation- Myeloproliferative Neoplasms (MPN), Cancer | Mol- Trans | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 14 | CBC/ Prescription/ medical impression/ reports | N | by the attending physician | N |
| 81 | MSI | Micro Satellite Inastability- Colorectal Cancer , MMR, Miss Match Repare, HNPCC | Mol- Trans | Fragment Analysis | PBE and Tis or FFPE | 5-10 ml/> 20% Tumoral Tissue | 2-8 °C | 14 | medical impression/ reports/Pathology Reports/prescription | N | by the attending physician | N |
| 82 | MTH-FR | MTHFR (A1298C) (C677T) | Mol- Others | Sanger Sequencing/ Reverse Strip Assay | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports | N | by the attending physician | N |



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|------|---|--|----------------------|---------------------|---------------------------|------------------------------|--------------------------|-----------------------------------|--|--|---|--|
| 83 | Mutation Confirmation-Family (up to 3 person) | Mutation Confirmation, Diagnosis, Carrier Detection | Mol- Gene Sequencing | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 60 | Prescription/ medical impression/ reports | Y | Y | N |
| 84 | Mutation Confirmation-Ind (additional person) | Mutation Confirmation, Diagnosis, Carrier Detection | Mol- Gene Sequencing | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 60 | Prescription/ medical impression/ reports | Y | Y | N |
| 85 | NF1 Common Somatic Mutation | NF1, Somatic Mutation, Sarcoma, Cancer | Mol- Trans | Sanger Sequencing | Tis Or DNA or FFPE | > 20% Tumoral Tissue | 2-8 °C | 14 | medical impression/ reports/Pathology Reports/prescription | N | by the attending physician | N |
| 86 | NGS- Carrier Screening-Medical Exome | Carrier Screening, OMIM Genes | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 90-120 | Prescription/ medical impression/ reports/pedigree | Y | Y | N |
| 87 | NGS- Multi Cancer With CNV Panel (Solid Tumor and Non solid Tumor Cancer) | Solid Tumor, Cancer, NGS, Germline, Somatic | Mol- NGS | NGS | PBE or DNA or Tis or FFPE | 5-10 ml/> 20% Tumoral Tissue | 2-8 °C | 90-120 | Prescription/ medical impression/ reports | N | by the attending physician | N |
| 88 | NGS-Ataxia Exome | NGS, Ataxia, Germline Mutation, Diagnosis, Carrier Detection | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 90-120 | Prescription/ medical impression/ reports | Y | Y | N |

| ردیف | Test | کلیدواژه keyword | ID | روش انجام method | نوع نمونه sample | حجم نمونه volume | شرایط نگهداری storage | زمان جوابدهی(روز) TAT (Day) | مدارک موردنیاز document | نیاز به مشاوره قبل از انجام آزمایش دارد؟ Pre test counseling | نیاز به مشاوره بعد از انجام آزمایش دارد؟ Post test counseling | قابلیت اورژانس دارد؟ Does it have an emergency function |
|------|--|--|-------------------------|---------------------|------------------------|---------------------|--------------------------|-----------------------------------|--|--|---|--|
| 89 | NGS-BRCA I-II Panel | NGS- Germline mutation, Diagnosis, Breast cancer, Ovarian Cancer, pancreatic cancer, BRCA1- BRCAII, BRCA1, BRCA2. Sequencing | Mol- Gene Sequencing | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 60 | Prescription/ medical impression/ reports | Y | Y | N |
| 90 | NGS-BRCA I-II Plus del/dup | NGS- Germline mutation, Diagnosis, Breast cancer, Ovarian Cancer, pancreatic cancer, BRCA1- BRCAII, BRCA1, BRCA2. Sequencing | Mol- Gene Sequencing | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 60 | Prescription/ medical impression/ reports | Y | Y | N |
| 91 | NGS-BRCA I-II Plus del/dup (Somatic) Panel | NGS- Germline mutation, Diagnosis, Breast cancer, Ovarian Cancer, pancreatic cancer, BRCA1- BRCAII, BRCA1, BRCA2. Sequencing | Mol- Trans | NGS | DNA in streck tubes | 5-10 ml | 2-8 °C | 60 | Prescription/ medical impression/ reports | Y | Y | N |
| 92 | NGS-Carrier Screening Female | NGS,Parents (Including carrier detection), Gemline Mutation, Diagnosis, Carrier Detection, Reproductive Screening | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 90-120 | Prescription/ medical impression/ reports | Y | Y | N |

| ردیف | Test | کلیدواژه keyword | ID | روش انجام method | نوع نمونه sample | حجم نمونه volume | شرایط نگهداری storage | زمان جوابدهی (روز) TAT (Day) | مدارک موردنیاز document | نیاز به مشاوره قبل از انجام آزمایش دارد؟ Pre test counseling | نیاز به مشاوره بعد از انجام آزمایش دارد؟ Post test counseling | قابلیت اورژانس دارد؟ Does it have an emergency function |
|------|--|--|----------|---------------------|---------------------------------|------------------------------------|--------------------------|------------------------------------|--|--|--|--|
| 93 | NGS-Carrier Screening Female (Without DMD) | NGS,Parents (Including carrier detection), Gemline Mutation, Diagnosis, Carrier Detection, Reproductive Screening | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 90-120 | Prescription/ medical impression/ reports | Y | Y | N |
| 94 | NGS-Carrier Screening male | NGS,Parents (Including carrier detection), Gemline Mutation, Diagnosis, Carrier Detection, Reproductive Screening | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 90-120 | Prescription/ medical impression/ reports | Y | Y | N |
| 95 | NGS- Ciliopathies Exome | NGS-Ciliopathies, Gemline Mutation, Diagnosis, Carrier Detection | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 90-120 | Prescription/ medical impression/ reports | Y | Y | N |
| 96 | NGS-CMT & Sensory Neuropathies (103G) Exome | NGS, Sensory Neuropathies, Gemline Mutation, Diagnosis, Carrier Detection | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 90-120 | Prescription/ medical impression/ reports | Y | Y | N |
| 97 | NGS-CNV Exome | NGS, Gemline Mutation, Diagnosis, Carrier Detection, Solid Tumor, Cancer | Mol- NGS | NGS | PBE or DNA or Tis or FFPE | 5-10 ml/> 20% Tumoral Tissue | 2-8 °C | 120 | Prescription/ medical impression/ reports | Y | Y | N |

| ردیف | Test | کلیدواژه keyword | ID | روش انجام method | نوع نمونه sample | حجم نمونه volume | شرایط نگهداری storage | زمان جوابدهی(روز) TAT (Day) | مدارک موردنیاز document | نیاز به مشاوره قبل از انجام آزمایش دارد؟ Pre test counseling | نیاز به مشاوره بعد از انجام آزمایش دارد؟ Post test counseling | قابلیت اورژانس دارد؟ Does it have an emergency function |
|------|---|---|----------|---------------------|---------------------|---------------------|--------------------------|-----------------------------------|---|--|---|--|
| 98 | NGS-Corpus Callosum Agenesis Exome | NGS-Corpus Callosum Agenesis, Gemline Mutation, Diagnosis, Carrier Detection | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 90-120 | Prescription/ medical impression/ reports | Y | Y | N |
| 99 | NGS-Craniofacial anomalies Exome | NGS, Carniofacial Anomalies, Gemline Mutation, Diagnosis, Carrier Detection | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 90-120 | Prescription/ medical impression/ reports | Y | Y | N |
| 100 | NGS-Disorders in sex development Exome | NGS, Disorders in sex development, Gemline Mutation, Diagnosis, Carrier Detection | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 90-120 | Prescription/ medical impression/ reports | Y | Y | N |
| 101 | NGS-Duo (Proband & 1 family member) Exome | NGS, Duo (Proband & 1 family member, Gemline Mutation, Diagnosis, Carrier Detection | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 90-120 | Prescription/ medical impression/ reports | Y | Y | N |
| 102 | NGS-Epilepsy Exome | NGS-Epilepsy, Gemline Mutation, Diagnosis, Carrier Detection | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 90-120 | Prescription/ medical impression/ reports | Y | Y | N |
| 103 | NGS-Exome (Medical exome for OMIM refrenced genes 200X) | NGS,Gemline Mutation, Diagnosis, Carrier Detection | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 90-120 | Prescription/ medical impression/ reports | Y | Y | N |

| ردیف | Test | کلیدواژه keyword | ID | روش انجام method | نوع نمونه sample | حجم نمونه volume | شرایط نگهداری storage | زمان جوابدهی (روز) TAT (Day) | مدارک موردنیاز document | نیاز به مشاوره قبل از انجام آزمایش دارد؟ Pre test counseling | نیاز به مشاوره بعد از انجام آزمایش دارد؟ Post test counseling | قابلیت اورژانس دارد؟ Does it have an emergency function |
|------|--|--|--------------|---------------------|---------------------|---------------------|--------------------------|------------------------------------|--|--|---|--|
| 104 | NGS-Exome (Medical exome for OMIM referenced genes) | NGS-Exome (Medical exome for OMIM referenced genes), Gemline Mutation, Diagnosis, Carrier Detection | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 90-120 | Prescription/ medical impression/ reports | Y | Y | N |
| 105 | NGS-Exome+ Mito 100X | Mitochondrial disorder, heteroplasmy, mt DNA Screening | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 90-120 | Prescription/ medical impression/ reports | Y | Y | N |
| 106 | NGS-Hearing Loss Exome | NGS-Hearing Loss, Gemline Mutation, Diagnosis, Carrier Detection | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 90-120 | Prescription/ medical impression/ reports | Y | Y | N |
| 107 | NGS- Hemostatic/Thro mbotic disorders Exome | NGS- Hemostatic/Thrombotic disorders, Gemline Mutation, Diagnosis, Carrier Detection | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 90-120 | Prescription/ medical impression/ reports | Y | Y | N |
| 108 | NGS-Hereditary Cancer | NGS,Hereditary Cancer, Gemline Mutation, Diagnosis, Carrier Detection | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 90-120 | Prescription/ medical impression/ reports | Y | Y | N |
| 109 | NGS-Hereditary comprehensive cancer panel | NGS,Hereditary Cancer, | Mol-Gene seq | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 60 | Prescription/ medical impression/ reports | Y | Y | N |

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|------|---|---|----------|---------------------|---------------------|---------------------|--------------------------|-----------------------------------|---|--|---|--|
| 110 | NGS-Hereditary Cancer plus CNV | NGS,Hereditary Cancer, Gemline Mutation, Diagnosis, Carrier Detection,CNV | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 60 | Prescription/ medical impression/ reports | Y | Y | N |
| 111 | NGS-Hereditary Spastic Paraplegia Exome | NGS, Hereditary Spastic Paraplegia Gemline Mutation, Diagnosis, Carrier Detection | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 90-120 | Prescription/ medical impression/ reports | Y | Y | N |
| 112 | NGS-ID (Syndromic-NonSyndromic) Exome | NGS-ID (Syndromic-NonSyndromic), Gemline Mutation, Diagnosis, Carrier Detection | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 90-120 | Prescription/ medical impression/ reports | Y | Y | N |
| 113 | NGS-Iron disorders Exome | NGS,Iron disorders, Gemline Mutation, Diagnosis, Carrier Detection | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 90-120 | Prescription/ medical impression/ reports | Y | Y | N |
| 114 | NGS-Mendelian Disorders Exome | NGS, Mendelian Disorders, Gemline Mutation, Diagnosis, Carrier Detection | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 90-120 | Prescription/ medical impression/ reports | Y | Y | N |
| 115 | NGS-Metabolic disorders Exome | NGS-Metabolic disorders, Metabolic disorders | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 90-120 | Prescription/ medical impression/ reports | Y | Y | N |



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|------|--|--|----------|---------------------|---------------------|---------------------|--------------------------|-----------------------------------|--|--|---|--|
| 116 | NGS- Mitochondrial disorders Exome | NGS,Mitochondrial disorders, Gemline Mutation, Diagnosis, Carrier Detection | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 90-120 | Prescription/ medical impression/ reports | Y | Y | N |
| 117 | NGS-Movement disorders Exome | NGS,Movement disorders, Gemline Mutation, Diagnosis, Carrier Detection | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 90-120 | Prescription/ medical impression/ reports | Y | Y | N |
| 118 | NGS-Multiple congenital anomalies Exome | NGS,Multiple congenital anomalies, Gemline Mutation, Diagnosis, Carrier Detection | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 90-120 | Prescription/ medical impression/ reports | Y | Y | N |
| 119 | NGS-Muscular Dystrophy & Muscle disorders Exome | NGS,Muscular Dystrophy & Muscle disorders, Gemline Mutation, Diagnosis, Carrier Detection | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 90-120 | Prescription/ medical impression/ reports | Y | Y | N |
| 120 | NGS-Onco Myeloid Panel | KDM6A, Leukemia, NGS,Cancer, TP53,SMC1 A,PTEN,NMP1,HRAS,E TV6,CEBPA,BRAF,FLT 3,JAK2,U2AF1,WT1,SF3 B1,ATRX,ASXL1,K1T, NRAS,E2H2,IDH1,IDH2 | Mol- NGS | NGS | PBE or DNA | 10 ml | 2-8 °C | 30 | Prescription/ medical impression/ reports | Y | Y | N |

| ردیف | Test | کلیدواژه keyword | ID | روش انجام method | نوع نمونه sample | حجم نمونه volume | شرایط نگهداری storage | زمان جوابدهی(روز) TAT (Day) | مدارک موردنیاز document | نیاز به مشاوره قبل از انجام آزمایش دارد؟ Pre test counseling | نیاز به مشاوره بعد از انجام آزمایش دارد؟ Post test counseling | قابلیت اورژانس دارد؟ Does it have an emergency function |
|------|---|---|----------|---------------------|---------------------|---------------------|--------------------------|-----------------------------------|--|--|--|--|
| 121 | NGS-Onco Multi cancer RNA fusion panel | Leukemia,RNA,NGS,Cancer,RAF1,BRAF,NTRK1,23,EGFR,FGFR3,PBX1,NRG,ROS1,RET,ALK,TFE3,PRKACA,ERG,PPARG,MET | Mol- NGS | NGS | PBE or FFPE | 10 ml | 2-8 °C | 30 | Prescription/ medical impression/Pathology reports | Y | Y | N |
| 122 | NGS-Parents (Including carrier detection) Exome | NGS,Parents (Including carrier detection), Gemline Mutation, Diagnosis, Carrier Detection | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 90-120 | Prescription/ medical impression/ reports | Y | Y | N |
| 123 | NGS-Primary immunodeficiencies Exome | NGS-Primary immunodeficiencies, Gemline Mutation, Diagnosis, Carrier Detection | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 90-120 | Prescription/ medical impression/ reports | Y | Y | N |
| 124 | NGS-Reanalysis of data | NGS,Reanalysis of data, Gemline Mutation, Diagnosis, Carrier Detection | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 60 | Prescription/ medical impression/ reports | Y | Y | N |
| 125 | NGS-Research Exome 100X | NGS,Research, Gemline Mutation, Diagnosis, Carrier Detection | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 90-120 | Prescription/ medical impression/ reports | Y | Y | N |
| 126 | NGS-RP Exome | NGS,Gemline Mutation, Diagnosis, Carrier Detection | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 90-120 | Prescription/ medical impression/ reports | Y | Y | N |



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|------|---|---|------------|-------------------------|---------------------|---------------------|--------------------------|-----------------------------------|--|--|---|--|
| 127 | NGS-Skin disorders Exome | NGS,Skin Disorders, Gemline Mutation, Diagnosis, Carrier Detection | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 90-120 | Prescription/ medical impression/ reports | Y | Y | N |
| 128 | NGS-TMB and MSI | Thyroid cancer, Lung, Colorectal cancer, EGFR Mutation | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 45 | Prescription/ medical impression/ reports | Y | Y | N |
| 129 | NGS-Trio (Proband & 2 family preferred members) Exome | NGS-Trio (Proband & 2 family preferred members) Exome, Gemline Mutation, Diagnosis, Carrier Detection | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 90-120 | Prescription/ medical impression/ reports | Y | Y | N |
| 130 | NGS-Vision disorders Exome | NGS,Gemline Mutation, Diagnosis, Carrier Detection, Vision disorders | Mol- NGS | NGS | PBE or DNA | 5-10 ml | 2-8 °C | 90-120 | Prescription/ medical impression/ reports | Y | Y | N |
| 131 | NGS-Whole Genome Sequencing (WGS) | Whole Genome Sequencing, Breakpoint detection | Mol- NGS | Whole genome sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 90 | medical impression/ reports | Y | Y | N |
| 132 | NPM-1 | NPM1, Somatic Mutation | Mol- Trans | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 7 | Prescription/medical impression/ reports/CBC | N | by the attending physician | N |



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|------|---------------------|---|-------------|--|---------------------|----------------------|--------------------------|-----------------------------------|--|--|---|--|
| 133 | N-RAS | NRAS Common Mutation, Exon 2, 3, 4, Codone 12-13.61- colorectal Cancer | Mol- Trans | Sanger Sequencing/ Reverse Strip Assay/Real time PCR | Tis Or DNA | > 20% Tumoral Tissue | 2-8 °C | 7-10 | medical impression/ reports/Pathology Reports/prescription | N | by the attending physician | N |
| 134 | PAI | PAI, Clotting Problem, Trombosis | Mol- Others | Sanger Sequencing/ Reverse Strip Assay | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports | N | by the attending physician | N |
| 135 | Panel ALL | t(1;19) - t(12, 21) - t(9;22); t(4;11), Translocation , Leukemia, Diagnosis, Prognosis | Mol- Trans | RT-PCR/Real Time PCR | PBE or BM | 5-10 ml | 2-8 °C | 14 | All disease diagnosis documents - prescription - CBC | N | by the attending physician | N |
| 136 | Panel AML | t(4;11) - t(8, 21) - t(9;22); t(15;71), inv16, Translocation , Leukemia, Diagnosis, Prognosis | Mol- Trans | RT-PCR/Real Time PCR | PBE or BM | 5-10 ml | 2-8 °C | 14 | All disease diagnosis documents - prescription - CBC | N | by the attending physician | N |
| 137 | Paternity | Paternity | Mol- Trans | Fragment Analysis | PBE or DNA | 5-10 ml | 2-8 °C | 14 | Identity documents | Y | Y | N |
| 138 | Paternity-Ind | Paternity | Mol- Trans | Fragment Analysis | PBE or DNA | 5-10 ml | 2-8 °C | 14 | Identity documents | Y | Y | N |
| 139 | PCR- Ampilification | PCR | Mol- Trans | PCR | DNA in streck tubes | 5-10 ml | 2-8 °C | 3 | Prescription/ medical impression/ reports | N | Y | N |
| 140 | PDGFRa-Tissue | PDGFRa, Somatic Mutation, GIST (Exon18), Sarcoma | Mol- Trans | Sanger Sequencing | Tis Or DNA | > 20% Tumoral Tissue | 2-8 °C | 14 | medical impression/ reports/Pathology Reports/prescription | N | by the attending physician | N |

| ردیف | Test | کلیدواژه keyword | ID | روش انجام method | نوع نمونه sample | حجم نمونه volume | شرایط نگهداری storage | زمان جوابدهی(روز) TAT (Day) | مدارک موردنیاز document | نیاز به مشاوره قبل از انجام آزمایش دارد؟ Pre test counseling | نیاز به مشاوره بعد از انجام آزمایش دارد؟ Post test counseling | قابلیت اورژانس دارد؟ Does it have an emergency function |
|------|------------|--|----------|--|---------------------------|---------------------|--------------------------|-----------------------------------|--|--|---|--|
| 141 | PGD | PGD-PGT-M- Monogenic disease-IVF- PND | Mol- PGD | Sanger sequencing/ Linkage analysis | Blastomere/ blastocyst | 1-4 Blastomeres | 2-8 °C | 2 | medical impression/ reports | Y | Y | Y |
| 142 | PGD I | PGD-PGT-M- Monogenic disease-IVF- PND | Mol- PGD | Sanger sequencing/ Linkage analysis | Blastomere/ blastocyst | <4 Blastomeres | 2-8 °C | 2 | medical impression/ reports | Y | Y | *Y |
| 143 | PGD II | PGD-PGT-M- Monogenic disease-IVF- PND | Mol- PGD | Sanger sequencing/ Linkage analysis | Blastomere/ blastocyst | >4 Blastomeres | 2-8 °C | 2 | medical impression/ reports | Y | Y | N |
| 144 | PGD SEX I | PGD-PGT-M- Monogenic disease-IVF- PND-Pre-PGT-M-SEX determination | Mol- PGD | AMX/SRY amplification- QF analysis | Blastomere/ blastocyst | 1-4 Blastomeres | 2-8 °C | 2 | medical impression/ reports | Y | Y | Y |
| 145 | PGD SEX II | PGD-PGT-M- Monogenic disease-IVF- PND-Pre-PGT-M-SEX determination | Mol- PGD | AMX/SRY amplification- QF analysis | Blastomere/ blastocyst | >4 Blastomeres | 2-8 °C | 2 | medical impression/ reports | Y | Y | Y |
| 146 | PGD-Pre | PGD-PGT-M- Monogenic disease-IVF- PND-Pre-PGT-M | Mol- PGD | Sanger sequencing/ Linkage analysis | PBE or DNA | 5-10 ml | 2-8 °C | 60 | Prescription/ medical impression/ reports | Y | Y | N |

| ردیف | Test | کلیدواژه keyword | ID | روش انجام method | نوع نمونه sample | حجم نمونه volume | شرایط نگهداری storage | زمان جوابدهی(روز) TAT (Day) | مدارک موردنیاز document | نیاز به مشاوره قبل از انجام آزمایش دارد؟ Pre test counseling | نیاز به مشاوره بعد از انجام آزمایش دارد؟ Post test counseling | قابلیت اورژانس دارد؟ Does it have an emergency function |
|------|---------------------|---|-------------------------|--|---------------------|---------------------|--------------------------|-----------------------------------|--|--|--|--|
| 147 | PGD-Pre Beta & GJB2 | PGD-PGT-M- Monogenic disease-IVF- PND-Pre-PGT-M | Mol- PGD | Sanger sequencing/ Linkage analysis | PBE or DNA | 5-10 ml | 2-8 °C | 60 | Prescription/ medical impression/ reports | Y | Y | N |
| 148 | PKU Female | PKU (Phenylketonuria), PAH Gene, Germline Mutation, Diagnosis, Carrier Detection, Metabolic disorders | Mol- Gene Sequencing | Linkage analysis | PBE or DNA | 5-10 ml | 2-8 °C | 30 | Prescription/ medical impression/ reports | Y | Y | N |
| 149 | PKU Male | PKU (Phenylketonuria), PAH Gene, Germline Mutation, Diagnosis, Carrier Detection, Metabolic disorders | Mol- Gene Sequencing | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 30 | Prescription/ medical impression/ reports | Y | Y | N |
| 150 | PKU Other | PKU (Phenylketonuria), PAH Gene, Germline Mutation, Diagnosis, Carrier Detection, Metabolic disorders | Mol- Gene Sequencing | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 30 | Prescription/ medical impression/ reports | Y | Y | N |
| 151 | PND- PGD | PGD-PGT-M- Monogenic disease-IVF- PND-Pre-PGT- MPreimplantation genetic diagnosis | Mol- PGD | Sanger Sequencing | CVS/Amnion | 5-10 ml | 2-8 °C | 14 | medical impression/ reports | Y | Y | N |

| ردیف | Test | کلیدواژه keyword | ID | روش انجام method | نوع نمونه sample | حجم نمونه volume | شرایط نگهداری storage | زمان جوابدهی(روز) TAT (Day) | مدارک موردنیاز document | نیاز به مشاوره قبل از انجام آزمایش دارد؟ Pre test counseling | نیاز به مشاوره بعد از انجام آزمایش دارد؟ Post test counseling | قابلیت اورژانس دارد؟ Does it have an emergency function |
|------|------------------------------|---|-------------------------|---|-------------------------------------|---------------------|--------------------------|-----------------------------------|--|--|--|--|
| 152 | PND-Alpha | PND- Alpha Thalassemia, Prenatal Diagnosis | Mol- Thalasemia | Sanger Sequencing- Multiplex PCR- Alpha MLPA | PBE or DNA or CV or AF or AFC | 5-10 ml | 2-8 °C | 14 | CBC- Hb Electrophoresis-Ferritin | Y | Y | Y |
| 153 | PND-CF | PND -CF (Cystic fibrosis), Sequencing, MLPA,Prenatal Diagnosis | Mol- Others | Sanger Sequencing/ Reverse Strip Assay | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports | Y | Y | Y |
| 154 | PND-Duchenne | PND -DMD , Sequencing, MLPA, Prenatal Diagnosis | Mol- Others | Sanger Sequencing/ML PA | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports | Y | Y | Y |
| 155 | PND-FraX | PND -FRAX, , PreMutation, Prenatal Diagnosis | Mol- Others | Fragment Analysis/Southe rn | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports | Y | Y | Y |
| 156 | PND-Gaucher | PND -Gaucher Germline Mutation, Prenatal Diagnosis | Mol- Others | Sanger Sequencing/ Reverse Strip Assay | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports | Y | Y | Y |
| 157 | PND-Mutation Confirmation | Germline Mutation, Sequencing, Prenatal Diagnosis | Mol- Gene Sequencing | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 14 | Prescription/ medical impression/ reports | Y | Y | **Y |
| 158 | PND-Others | PND, Prenatal Diagnosis | Mol- Others | Sanger Sequencing- MLPA | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports | Y | Y | Y |

| ردیف | Test | کلیدواژه keyword | ID | روش انجام method | نوع نمونه sample | حجم نمونه volume | شرایط نگهداری storage | زمان جوابدهی (روز) TAT (Day) | مدارک موردنیاز document | نیاز به مشاوره قبل از انجام آزمایش دارد؟ Pre test counseling | نیاز به مشاوره بعد از انجام آزمایش دارد؟ Post test counseling | قابلیت اورژانس دارد؟ Does it have an emergency function |
|------|---------------------------------|--|-------------------------|------------------------------------|-------------------------------------|----------------------------|--------------------------|------------------------------------|--|--|--|--|
| 159 | PND-PKU | PND-PKU, (Phenylketonuria), Germline Mutation,Prenatal Diagnosis, Metabolic disorders | Mol- Gene Sequencing | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 14 | Prescription/ medical impression/ reports | Y | Y | **Y |
| 160 | PND-PRE | PND, NEW Variant | Mol- Gene Sequencing | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 60 | Complete information of previous tests/clinical records/paraclinic tests | Y | Y | N |
| 161 | PND-Sex | PND- Sex Determination, Prenatal Diagnosis | Mol- Others | PCR | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports | Y | Y | Y |
| 162 | PND-Sickle | PND- Sickle, Prenatal Diagnosis | Mol- Thalasemia | Sanger Sequencing | PBE or DNA or CV or AF or AFC | 5-10 ml | 2-8 °C | 14 | CBC- Electrophoresis- Ferritin | Y | Y | Y |
| 163 | PND-SMA | PND, SMA, Prenatal Diagnosis | Mol- Others | MLPA | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports | Y | Y | Y |
| 164 | PND-Thal Beta | PND, Beta thalasemia,Prenatal Diagnosis | Mol- Thalasemia | Sanger Sequencing- Beta MLPA | PBE or DNA or CV or AF or AFC | 5-10 ml | 2-8 °C | 14 | CBC- Electrophoresis- Ferritin | Y | Y | Y |
| 165 | POLE Common Somatic Mutation | Somatic Mutatin, Endometrial Cancer POLE, Helisomatic mutations | Mol- Trans | Sanger Sequencing | Tis or DNA or FFPE | > 20% Tumoral Tissue | 2-8 °C | 14 | medical compression/reports/path ology results/form TE- REX-FO-097/ | Y | Y | N |

| ردیف | Test | کلیدواژه keyword | ID | روش انجام method | نوع نمونه sample | حجم نمونه volume | شرایط نگهداری storage | زمان جوابدهی(روز) TAT (Day) | مدارک موردنیاز document | نیاز به مشاوره قبل از انجام آزمایش دارد؟ Pre test counseling | نیاز به مشاوره بعد از انجام آزمایش دارد؟ Post test counseling | قابلیت اورژانس دارد؟ Does it have an emergency function |
|------|---|---|-------------|---|---|--|--------------------------|-----------------------------------|---|--|---|--|
| 166 | PT-Pro- Thrombin (Factor II) | Factor II,Prothrombin,PT | Mol- Others | Sanger Sequencing/ Reverse Strip Assay | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports | N | by the attending physician | N |
| 167 | QF-PCR Aneuploidies | Determination of Aneuploidy of Chr. 13, 18, 21 , x and Y in fetus, abnormality, Screening, Aneuploidies | Mol- Trans | Fragment Analysis | PBE or DNA and AF or PBE or DNA and CVs or PBE or DNA and TC | 3-5 ml Amnion or CVS and 5- 10 ml PBE | 2-8 °C | 3 | Prescription/ medical impression/ reports | Y | Y | N |
| 168 | RET Common Somatic mutation | Common Somatic Variant, Thyroid medullary Carcinoma, proto- oncogen, receptor tyrosin kinase | Mol- Trans | Sanger Sequencing | PBE or Tis or DNA | 5-10 ml/> 20% Tumoral Tissue | 2-8 °C | 14 | medical compression/reports/path ology results/prescription | N | by the attending physician | N |
| 169 | RT-PCR (1-19) | RT-PCR- ALL , Leukemia, Diagnosis | Mol- Trans | RT-PCR | PBE or BM | 5-10 ml | 2-8 °C | 7 | All disease diagnosis documents/ prescription / CBC | N | by the attending physician | N |
| 170 | RT-PCR (12-21) | RT-PCR- ALL , Leukemia, Diagnosis | Mol- Trans | RT-PCR/Real Time PCR | PBE or BM | 5-10 ml | 2-8 °C | 7 | All disease diagnosis documents/ prescription / CBC | N | by the attending physician | N |
| 171 | RT-PCR (15-17) | RT-PCR- AML, AML- M3, PML-RARA , Leukemia, Diagnosis | Mol- Trans | RT-PCR/Real Time PCR | PBE or BM | 5-10 ml | 2-8 °C | 7 | All disease diagnosis documents/ prescription / CBC | N | by the attending physician | N |
| 172 | RT-PCR (15-17) Quantitative PMLRARA | RT-PCR- AML, AML- M3, PML-RARA , Leukemia, Diagnosis | Mol- Trans | RT-PCR/Real Time PCR | PBE or BM | 5-10 ml | 2-8 °C | 14 | All disease diagnosis documents/ prescription / CBC | N | by the attending physician | N |

| ردیف | Test | کلیدواژه keyword | ID | روش انجام method | نوع نمونه sample | حجم نمونه volume | شرایط نگهداری storage | زمان جوابدهی(روز) TAT (Day) | مدارک موردنیاز document | نیاز به مشاوره قبل از انجام آزمایش دارد؟ Pre test counseling | نیاز به مشاوره بعد از انجام آزمایش دارد؟ Post test counseling | قابلیت اورژانس دارد؟ Does it have an emergency function |
|------|---|---|------------|-------------------------|---------------------|---------------------|--------------------------|-----------------------------------|---|--|---|--|
| 173 | RT-PCR (4-11) | RT-PCR- ALL , Leukemia, Diagnosis | Mol- Trans | RT-PCR | PBE or BM | 5-10 ml | 2-8 °C | 7 | All disease diagnosis documents/ prescription / CBC | N | by the attending physician | N |
| 174 | RT-PCR (8-21) | RT-PCR- AML , Leukemia,Diagnosis | Mol- Trans | RT-PCR/Real Time PCR | PBE or BM | 5-10 ml | 2-8 °C | 7 | All disease diagnosis documents/ prescription / CBC | N | by the attending physician | N |
| 175 | RT-PCR (9-22) (P190KD-e1a2) | RT-PCR- CML, P190 BCR-ABL , Leukemia, Diagnosis | Mol- Trans | RT-PCR/Real Time PCR | PBE- BM | 5-10 ml | 2-8 °C | 7 | All disease diagnosis documents/ prescription / CBC | N | by the attending physician | N |
| 176 | RT-PCR (9-22) (P190KD- P210KD- P230KD) | RT-PCR- CML, P190 BCR-ABL , Leukemia, Diagnosis | Mol- Trans | RT-PCR/Real Time PCR | PBE- BM | 5-10 ml | 2-8 °C | 7 | All disease diagnosis documents/ prescription / CBC | N | by the attending physician | N |
| 177 | RT-PCR (9-22) (P210KD-b2a2- b3a2) | RT-PCR- CML, P210 BCR-ABL , Leukemia, Diagnosis | Mol- Trans | RT-PCR/Real Time PCR | PBE- BM | 5-10 ml | 2-8 °C | 7 | All disease diagnosis documents/ prescription / CBC | N | by the attending physician | N |
| 178 | RT-PCR (9-22) (P230KD-e19a2) | RT-PCR- CML, P210 BCR-ABL , Leukemia, Diagnosis | Mol- Trans | RT-PCR/Real Time PCR | PBE- BM | 5-10 ml | 2-8 °C | 7 | All disease diagnosis documents/ prescription / CBC | N | by the attending physician | N |
| 179 | RT-PCR (9-22) Quantitative (P190KD-e1a2) | RT-PCR- CML, P190 BCR-ABL , Leukemia, Diagnosis | Mol- Trans | RT-PCR/Real Time PCR | PBE- BM | 5-10 ml | 2-8 °C | 14 | All disease diagnosis documents/ prescription / CBC | N | by the attending physician | N |
| 180 | RT-PCR (9-22) Quantitative (P210KD-b2a2- b3a2) | RT-PCR- CML, P210 BCR-ABL , Leukemia, Diagnosis | Mol- Trans | RT-PCR/Real Time PCR | PBE- BM | 5-10 ml | 2-8 °C | 14 | All disease diagnosis documents/ prescription / CBC | N | by the attending physician | N |



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|------|---------------------------------|--|-------------------------|----------------------|---------------------|---------------------|--------------------------|-----------------------------------|---|--|---|--|
| 181 | RT-PCR inv (16) | RT-PCR- AML , Leukemia, Diagnosis | Mol- Trans | RT-PCR | PBE- BM | 5-10 ml | 2-8 °C | 7 | All disease diagnosis documents/ prescription / CBC | N | by the attending physician | N |
| 182 | Sequencing CAPN3 | Sequencing, limb-girdle muscular dystrophy-1 | Mol- Gene Sequencing | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 30 | Prescription/ medical impression/ reports | Y | Y | N |
| 183 | Sequencing CF | CFTR-Cyctic Fibrosis- Germline Mutation, Sequencing, Diagnosis, Carrier Detection | Mol- Gene Sequencing | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 60 | Prescription/ medical impression/ reports | Y | Y | N |
| 184 | Sequencing DMD/BMD | DMD, Duchenne muscular dystrophy - Germline Mutation, Sequencing, Diagnosis, Carrier Detection | Mol- Gene Sequencing | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 60 | Prescription/ medical impression/ reports | Y | Y | N |
| 185 | Sequencing FMF | MEFV, FMF- Germline Mutation, Sequencing, Diagnosis, Carrier Detection | Mol- Gene Sequencing | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 30 | Prescription/ medical impression/ reports | Y | Y | N |
| 186 | Sequencing Hematochromatosis | Germline Mutation, Sequencing, Diagnosis, Carrier Detection | Mol- Gene Sequencing | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 30 | Prescription/ medical impression/ reports | Y | Y | N |
| 187 | Sequencing Reaction | Sequencing RUN | Mol- Sequencing | Sanger Sequencing | PCR Product | 25UL | 2-8 °C | 3 | لیبل نمونه روی میکروتیوپ، ارسال پرایمر و اطلاعات ژن و پرایمر در اکسل ارسالی | N | N | N |

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|------|----------------------------------|--|-------------------------|----------------------|---------------------|---------------------|--------------------------|-----------------------------------|---|--|---|--|
| 188 | Sequencing Run | Sequencing Run | Mol- Sequencing | Sanger Sequencing | PCR Product | 25UL | 2-8 °C | 3 | لیبل نمونه روی میکروتیوپ، ارسال پرایمر و اطلاعات ژن و پرایمر در اکسل ارسالی | N | N | N |
| 189 | Sequencing TP53 | Li-fraumeni Syndrome, P53, TP53, Germline Mutation, Sequecing, Diagnosis, Tumer protein P53, TRP53 | Mol- Gene Sequencing | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 30 | Prescription/ medical impression/ reports | Y | Y | N |
| 190 | SEX- Determination | Sex-Determination | Mol- Others | PCR | PBE or DNA | 5-10 ml | 2-8 °C | 3 | medical impression/ reports | Y | Y | N |
| 191 | SF3B1 Common Somatic Mutation | Cancer,Sanger Sequencing, MDS، جهش های هلی سوماتیک، Breast Cancer, CLL, Endometrial Cancer | Mol- Trans | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports | N | Y | N |
| 192 | Sickle Female | Sikle cell Thalassemia | Mol- Thalasemia | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 14 | CBC- Hb Electrophoresis-Ferritin | Y | N | N |
| 193 | Sickle Male | Sikle cell Thalassemia | Mol- Thalasemia | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 14 | CBC- Hb Electrophoresis-Ferritin | Y | N | N |
| 194 | Sickle Other | Sikle cell Thalassemia | Mol- Thalasemia | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 14 | CBC- Hb Electrophoresis-Ferritin | Y | N | N |



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|------|------------------------------------|--|----------------------|---------------------|---------------------------|-----------------------------|--------------------------|------------------------------------|--|--|--|--|
| 195 | SLOS Gene Sequencing | Smith Lemli Opitz Syndrome, deficiency in the enzyme 7-dehydrocholesterol reductase, abnormality in cholesterol metabolism | Mol- Gene Sequencing | Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 14 | Prescription/ medical impression/ reports | Y | جواب غیر طبیعی | N |
| 196 | SMA Female | SMA-Spinal Muscular Atrophy, Diagnosis, Carrier Detection | Mol- Others | MLPA | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports | Y | جواب غیر طبیعی | N |
| 197 | SMA FraX- Carrier screening female | Reproductive Screening, Pre-Pregnancy, Germline Screening, Carrier Screening | Mol- Others | MLPA, TP-PCR | PBE or DNA | 5-10 ml | 2-8 °C | 30 | Prescription/ medical impression/ reports | Y | جواب غیر طبیعی | N |
| 198 | SMA Male | SMA-Spinal Muscular Atrophy, Diagnosis, Carrier Detection | Mol- Others | MLPA | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports | Y | جواب غیر طبیعی | N |
| 199 | SMA Other | SMA-Spinal Muscular Atrophy, Diagnosis, Carrier Detection | Mol- Others | MLPA | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports | Y | جواب غیر طبیعی | N |
| 200 | SRSF2 Common Somatic Mutation | SRSF2, Somatic Mutation, Myeloproliferative Neoplasms (MPN), Cancer, Pharmacogenetics | Mol- Trans | Sanger Sequencing | PBE or Tis or DNA or FFPE | 5-10 ml/>20% Tumoral Tissue | 2-8 °C | 14 | medical compression/ reports/ pathology results/ doctor's prescription | Y | by the attending physician | N |
| 201 | Sex Determination | SRY, Sex Determination | Mol- Others | PCR | PBE or DNA | 5-10 ml | 2-8 °C | 3 | medical impression/ reports | Y | جواب غیر طبیعی | N |



| ردیف | Test | کلیدواژه keyword | ID | روش انجام method | نوع نمونه sample | حجم نمونه volume | شرایط نگهداری storage | زمان جوابدهی(روز) TAT (Day) | مدارک موردنیاز document | نیاز به مشاوره قبل از انجام آزمایش دارد؟ Pre test counseling | نیاز به مشاوره بعد از انجام آزمایش دارد؟ Post test counseling | قابلیت اورژانس دارد؟ Does it have an emergency function |
|------|-------------------------------|--|-----------------|----------------------------------|------------------------|----------------------|--------------------------|-----------------------------------|--|--|---|--|
| 202 | TERT Common Somatic Mutation | TERT, Somatic Mutation, Nervous System Cancer, Cancer, Pharmacogenetics | Mol- Trans | Sanger Sequencing | Tis or DNA or FFPE | > 20% Tumoral Tissue | 2-8 °C | 14 | medical compression/ reports/ pathology results/ doctor's prescription | Y | by the attending physician | *Y |
| 203 | Thal II-1-XMN | Thalassemia, XMN, Carrier Detection, Thalassemia Major | Mol- Thalasemia | ARMS PCR- XMNI Sanger Sequencing | PBE or DNA | 5-10 ml | 2-8 °C | 14 | CBC- Hb Electrophoresis | Y | N | N |
| 204 | TP53 Common Somatic Mutation | TP53, Somatic Mutation, Chronic Lymphocytic Leukemia (CLL), Myeloproliferative Neoplasms, Cancer, Pharmacogenetics | Mol- Trans | Sanger Sequencing | Tis or DNA or FFPE | > 20% Tumoral Tissue | 2-8 °C | 14 | medical compression/ reports/ pathology results/ doctor's prescription | N | by the attending physician | N |
| 205 | U2AF1 Common Somatic Mutation | U2AF1, Common Somatic Mutation, Pharmacogenetics,, Myeloproliferative Neoplasms (MPN), Cancer | Mol- Trans | Sanger Sequencing | Tis or DNA or FFPE | > 20% Tumoral Tissue | 2-8 °C | 14 | medical compression/ reports/ pathology results/ doctor's prescription | N | by the attending physician | *Y |
| 206 | Warfarin Resistance | Warfarin Resistance | Mol- Others | Reverse Strip Assay | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports | Y | by the attending physician | N |
| 207 | WGA PGD I | | Mol- PGD | amplification | Blastomere/ blastocyst | 1-4 Blastomeres | 2-8 °C | 2 | medical impression/ reports | N | Y | Y |
| 208 | WGA PGD II | | Mol- PGD | amplification | Blastomere/ blastocyst | >4 Blastomeres | 2-8 °C | 2 | medical impression/ reports | N | Y | Y |

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|------|-----------------------------|---|-------------|---------------------|---------------------------|---------------------|--------------------------|-----------------------------------|--|--|---|--|
| 209 | WT1 common somatic mutation | AML, ALL, Prostate cancer, Breast cancer | Mol- Trans | Sanger Sequencing | Tis or DNA or FFPE or PBE | 5-10 ml | 2-8 °C | 14 | medical compression/ reports/ pathology results/ doctor's prescription | N | Y | N |
| 210 | Y-Microdeletion | Y-Microdeletion; Male Infertility , Azoospermia | Mol- Others | PCR | PBE or DNA | 5-10 ml | 2-8 °C | 14 | medical impression/ reports | Y | Y | N |

| * test performed by clinical dept | |
|-----------------------------------|----------------------------------|
| BMH | Bone Marrow Heparin |
| BMSH | Bone Marrow Substitute Heparin* |
| PBH | Prepheral Blood Heparin |
| FFPE | Formalin Fixed Paraffin Embedded |
| AFC | Ammniotic Fluid Cells Cultured |
| AF | Ammniotic Fluid |
| CV | chorionic villi |
| POC | Product of Conception |
| Tis | Tissue |
| PBE | Prepheral Blood EDTA |
| Se | Serum |
| SBP | Skin Biopsy Punch |
| BS | Bucal Smear |
| Sw | Swab |
| BF | Body Fluid |
| AS | Aspiration |
| SL | Slide |
| PBF | Prepheral Blood Fresh |
| PCR P | PCR Product |
| SB | Skin Biopsy |
| * | Prepheral blood with >10% balst |