**Supplementary Digital Content File**

**Manuscript Title**: Different gene sets are associated with azacitidine response in vitro and myelodysplastic syndrome patients

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**Supplementary Table S1**

Results of shRNA screen

|  |  |
| --- | --- |
| **Gene.name** | **mean logFC AZA / untreated** |
| CDY1B | -1.9684775 |
| HDAC10 | -1.8563883 |
| RNF40 | -1.79403 |
| PCGF1 | -1.65212 |
| BOP1 | -1.618008 |
| PRDM9 | -1.609028 |
| ATR | -1.586082 |
| RPA1 | -1.571868 |
| ERG | -1.5679633 |
| CBX2 | -1.5138367 |
| PARP16 | -1.511028 |
| MCM5 | -1.473812 |
| TADA3 | -1.4713233 |
| BAHCC1 | -1.46677 |
| MBD2 | -1.4483117 |
| ACTL6A | -1.44777 |
| METTL2B | -1.40923 |
| ADPRH | -1.36103 |
| APOBEC2 | -1.333872 |
| SMN1 | -1.292944 |
| CDY1 | -1.27898 |
| COMMD3-BMI1 | -1.252568 |
| KDM2B | -1.22677 |
| SP110 | -1.2202271 |
| EYA2 | -1.215744 |
| DHX33 | -1.211902 |
| MBTD1 | -1.189178 |
| RUVBL2 | -1.175552 |
| RUNX1 | -1.158752 |
| DDX19B | -1.1540833 |
| AURKB | -1.117082 |
| PHF8 | -1.1156 |
| DOT1L | -1.107182 |
| DAXX | -1.106246 |
| HDGF | -1.1051583 |
| MYSM1 | -1.094018 |
| L3MBTL2 | -1.093234 |
| CDYL | -1.092738 |
| SUV420H2 | -1.078686 |
| MEN1 | -1.0723625 |
| MTF2 | -1.072186 |
| DHX38 | -1.0701683 |
| KAT8 | -1.0699367 |
| TADA2A | -1.0638 |
| ZBTB33 | -1.06041 |
| TRIM28 | -1.059908 |
| MORC3 | -1.052252 |
| YWHAQ | -1.051102 |
| PARP2 | -1.0500086 |
| DNMT1 | -1.047738 |
| EIF4A1 | -1.0463433 |
| BRWD1 | -1.04497 |
| PARP10 | -1.039958 |
| BAZ1A | -1.0308833 |
| USP3 | -1.0284133 |
| ZMYM3 | -1.027215 |
| METTL7A | -1.023222 |
| EED | -1.016012 |
| SSRP1 | -1.011255 |
| AKAP8 | -1.009242 |
| TDRD12 | -1.003732 |
| MTA2 | -1.0020617 |
| CHD2 | -1.00157 |
| SVEP1 | -1.00075 |
| CREBBP | -0.9975783 |
| DDX47 | -0.996254 |
| FBXO10 | -0.9956043 |
| PRDM4 | -0.994925 |
| TFPT | -0.99374 |
| NR0B2 | -0.988238 |
| DHX15 | -0.983876 |
| SMARCA5 | -0.9809375 |
| APOBEC4 | -0.98053 |
| TAF3 | -0.980444 |
| BMI1 | -0.9798017 |
| SETD4 | -0.9760829 |
| PRDM6 | -0.96831 |
| DHX58 | -0.964115 |
| CARM1 | -0.951272 |
| WDR82 | -0.9508917 |
| VRK2 | -0.946378 |
| DDX19A | -0.9410617 |
| MORC1 | -0.939378 |
| HDAC5 | -0.938386 |
| SNRNP200 | -0.92763 |
| CDK3 | -0.927025 |
| USP46 | -0.921672 |
| PRKDC | -0.920046 |
| GATAD2A | -0.916284 |
| PRMT6 | -0.906658 |
| SRC | -0.9023867 |
| PRDM5 | -0.899026 |
| TDG | -0.8974817 |
| UCHL5 | -0.895576 |
| HDAC4 | -0.892114 |
| ZHX2 | -0.8914983 |
| PRDM12 | -0.887998 |
| LNX1 | -0.885342 |
| ING4 | -0.882965 |
| TAF1 | -0.8827267 |
| HJURP | -0.879302 |
| TRIM13 | -0.879178 |
| MACROD1 | -0.8742833 |
| DDX24 | -0.8715033 |
| BRD4 | -0.869475 |
| METTL10 | -0.869385 |
| MCM7 | -0.868865 |
| NTMT1 | -0.8683171 |
| UBE2C | -0.867828 |
| SATB1 | -0.867608 |
| L3MBTL3 | -0.8661057 |
| CBX3 | -0.863148 |
| HMGN2 | -0.85897 |
| CTSL2 | -0.857845 |
| CBX8 | -0.8508 |
| DDX58 | -0.850042 |
| SKIV2L | -0.8464167 |
| GLYR1 | -0.8449083 |
| KIF22 | -0.840152 |
| PARP12 | -0.8385767 |
| PHF21B | -0.8372433 |
| RECQL4 | -0.830454 |
| NONO | -0.8261267 |
| SIAH2 | -0.8223583 |
| PHRF1 | -0.820552 |
| TBL1X | -0.8204767 |
| HOXC11 | -0.819978 |
| DQX1 | -0.81922 |
| TDRD1 | -0.818574 |
| SIN3A | -0.815922 |
| PARP9 | -0.815128 |
| SETD7 | -0.812358 |
| CBX7 | -0.81129 |
| PARG | -0.805736 |
| BAZ1B | -0.797384 |
| IGHMBP2 | -0.796935 |
| DDX51 | -0.796524 |
| FAM175A | -0.7929217 |
| NAT10 | -0.792344 |
| BRD8 | -0.792332 |
| MTERF | -0.787804 |
| TET1 | -0.784516 |
| TDRD9 | -0.778852 |
| UBR2 | -0.776058 |
| MCRS1 | -0.775992 |
| PKN1 | -0.774172 |
| HDAC2 | -0.773036 |
| FEN1 | -0.7726683 |
| SUV420H1 | -0.7718329 |
| DDX60 | -0.767688 |
| JAK2 | -0.762795 |
| SUB1 | -0.76157 |
| RING1 | -0.75963 |
| ELP2 | -0.758954 |
| ATAT1 | -0.7579371 |
| UBE2E3 | -0.757214 |
| RNF2 | -0.755448 |
| RPS6KA3 | -0.754652 |
| ERCC6L2 | -0.7521486 |
| SIRT2 | -0.748572 |
| ADA | -0.74851 |
| DPF2 | -0.748416 |
| CHAF1A | -0.74783 |
| FKBP1A | -0.746815 |
| NNMT | -0.744914 |
| SMARCC1 | -0.741546 |
| SP140 | -0.740926 |
| HIRA | -0.73763 |
| RBL1 | -0.734398 |
| KDM4E | -0.734106 |
| PSIP1 | -0.7308983 |
| HDAC8 | -0.730838 |
| METTL12 | -0.7293329 |
| PRKCB | -0.727824 |
| DTX3L | -0.72686 |
| MDC1 | -0.71842 |
| PADI2 | -0.7085457 |
| GSG2 | -0.703038 |
| NAP1L3 | -0.702052 |
| DDX3Y | -0.700172 |
| CHRAC1 | -0.69956 |
| ZNF519 | -0.69798 |
| ASH1L | -0.691284 |
| ASMT | -0.690882 |
| DMTF1 | -0.689734 |
| SUPT16H | -0.6867825 |
| ZNF787 | -0.68136 |
| NCOA1 | -0.6813017 |
| GPS2 | -0.67902 |
| BRPF1 | -0.6744314 |
| BRIP1 | -0.671135 |
| AICDA | -0.6706333 |
| C14orf169 | -0.67023 |
| PCGF6 | -0.668248 |
| ZMYND11 | -0.6680933 |
| SMARCB1 | -0.6679483 |
| DNAJC1 | -0.6636486 |
| ATF2 | -0.66315 |
| PADI6 | -0.6629683 |
| SMARCAL1 | -0.659718 |
| NCOR2 | -0.659355 |
| LRWD1 | -0.6581733 |
| ZCWPW2 | -0.6577013 |
| HNRNPA0 | -0.6567371 |
| SFMBT2 | -0.65492 |
| GDAP2 | -0.650594 |
| PRMT2 | -0.649284 |
| MYPOP | -0.644888 |
| UBR7 | -0.6407743 |
| NSUN6 | -0.6388443 |
| DHX8 | -0.637378 |
| SMARCC2 | -0.636165 |
| TP53BP1 | -0.6355533 |
| UBA7 | -0.634175 |
| HMGN5 | -0.63004 |
| PSD3 | -0.62954 |
| MPHOSPH8 | -0.629146 |
| FXR1 | -0.629088 |
| YTHDC2 | -0.627666 |
| FUS | -0.6252157 |
| LMNB1 | -0.62298 |
| ATAD2 | -0.6201 |
| UBE2A | -0.619238 |
| POLE3 | -0.618138 |
| GATAD2B | -0.610286 |
| HMGN1 | -0.6094014 |
| SP140L | -0.60809 |
| DDX10 | -0.605315 |
| RPS6KA5 | -0.603635 |
| PARP11 | -0.598466 |
| DHX40 | -0.5983633 |
| PHF19 | -0.591374 |
| BCL6 | -0.5898983 |
| ATAD2B | -0.58448 |
| UIMC1 | -0.582756 |
| CDK5 | -0.5798971 |
| RECQL | -0.577075 |
| MLL3 | -0.5766 |
| KAT6A | -0.5764233 |
| MINA | -0.576216 |
| SMYD2 | -0.57563 |
| DNMT3B | -0.57274 |
| CHD6 | -0.5726857 |
| ELP4 | -0.567325 |
| PARP3 | -0.56181 |
| DHX57 | -0.5602267 |
| RFXANK | -0.557796 |
| ZRANB3 | -0.5505429 |
| DDX56 | -0.545508 |
| EIF4A2 | -0.5447486 |
| USP13 | -0.54463 |
| CSNK2B | -0.5444029 |
| USP17L5 | -0.540152 |
| JMJD6 | -0.538842 |
| CBL | -0.538126 |
| ERCC6 | -0.53392 |
| TNKS | -0.53368 |
| PRDM8 | -0.532016 |
| DDX20 | -0.5251183 |
| ZZZ3 | -0.520558 |
| KDM5B | -0.5190167 |
| KDM1B | -0.5185933 |
| ZHX1 | -0.518345 |
| BRCC3 | -0.514866 |
| INTS12 | -0.51054 |
| KDM4A | -0.510198 |
| PARP8 | -0.5069033 |
| SFMBT1 | -0.506535 |
| HELQ | -0.50603 |
| SETDB2 | -0.5026367 |
| NSUN2 | -0.49818 |
| SUPT7L | -0.49281 |
| MIS18BP1 | -0.49264 |
| PHC3 | -0.48977 |
| UHRF1 | -0.48844 |
| ASXL2 | -0.4876843 |
| ESCO2 | -0.4839817 |
| TCF20 | -0.481195 |
| SETD8 | -0.4762833 |
| SETMAR | -0.4761083 |
| RCOR2 | -0.472546 |
| GTF3C5 | -0.469762 |
| MIER2 | -0.465866 |
| PRKAA2 | -0.4642967 |
| ATXN7 | -0.463936 |
| CCDC79 | -0.45905 |
| MECOM | -0.458822 |
| PARP1 | -0.458532 |
| PARP6 | -0.457448 |
| RC3H1 | -0.45502 |
| WIZ | -0.453304 |
| NAT6 | -0.452926 |
| G2E3 | -0.447154 |
| OGT | -0.445164 |
| FKBP5 | -0.4409467 |
| PRDM1 | -0.4358983 |
| CHD5 | -0.43333 |
| MGMT | -0.431916 |
| JHDM1D | -0.431562 |
| NAP1L1 | -0.4310414 |
| HMGN3 | -0.425242 |
| MLLT6 | -0.423818 |
| INO80E | -0.422652 |
| DHX9 | -0.4146625 |
| CUX1 | -0.4088 |
| NCOA6 | -0.408236 |
| ZBED5 | -0.4075771 |
| USP12 | -0.40473 |
| METTL13 | -0.400888 |
| PRDM2 | -0.3998583 |
| MACROD2 | -0.39737 |
| BRD9 | -0.394225 |
| HNRNPA2B1 | -0.392018 |
| CSTL1 | -0.391604 |
| PHC1 | -0.391438 |
| PRDM15 | -0.3906867 |
| ASF1A | -0.389504 |
| METTL6 | -0.3888571 |
| NBN | -0.386688 |
| HMGA1 | -0.38033 |
| BTAF1 | -0.3779667 |
| BRE | -0.377662 |
| HDAC6 | -0.377018 |
| ECE2 | -0.373955 |
| HLTF | -0.371352 |
| GTF2B | -0.368712 |
| TLE4 | -0.368552 |
| SP100 | -0.3675733 |
| MYBL1 | -0.367242 |
| CHD9 | -0.366514 |
| NCOA3 | -0.36565 |
| ACTR5 | -0.3563263 |
| MIER1 | -0.355478 |
| PAXIP1 | -0.347712 |
| INO80D | -0.346496 |
| TAF12 | -0.3405233 |
| RFWD2 | -0.33959 |
| L3MBTL4 | -0.3388467 |
| SBNO1 | -0.331224 |
| NSUN7 | -0.328222 |
| ENY2 | -0.3276817 |
| RAG2 | -0.327446 |
| TRIM24 | -0.32404 |
| METTL11B | -0.30761 |
| MTA3 | -0.303285 |
| ZGPAT | -0.29751 |
| TMPO | -0.290555 |
| AKAP1 | -0.2903571 |
| KAT2B | -0.2902767 |
| YEATS4 | -0.2793967 |
| CAMKMT | -0.2762533 |
| CDC6 | -0.249616 |
| TRIM5 | -0.237648 |
| WDR77 | -0.225752 |
| TLK1 | -0.211544 |
| NUFIP1 | 0.133774 |
| CALCOCO1 | 0.238528 |
| GADD45B | 0.239975 |
| CHD3 | 0.24018667 |
| CBX5 | 0.266098 |
| ALKBH3 | 0.274552 |
| NSUN5 | 0.278965 |
| BPTF | 0.28234 |
| CAMK4 | 0.28278667 |
| HMG20B | 0.28633167 |
| TRIM66 | 0.319188 |
| ZBTB40 | 0.329568 |
| TDRKH | 0.33141167 |
| RPH3A | 0.339798 |
| PHF21A | 0.34409429 |
| FAM175B | 0.34681 |
| METTL20 | 0.349916 |
| DDX43 | 0.352846 |
| WNT5A | 0.36729 |
| FIZ1 | 0.37604 |
| ORC2 | 0.380392 |
| HOMEZ | 0.38260571 |
| RNF8 | 0.38953 |
| RFX4 | 0.389868 |
| SETD2 | 0.397355 |
| ING1 | 0.399308 |
| CDYL2 | 0.39980429 |
| GTF3C4 | 0.407084 |
| DDX4 | 0.41276 |
| MLL5 | 0.41822167 |
| RCOR3 | 0.42175 |
| CDCA7L | 0.42221333 |
| PBX1 | 0.428052 |
| UBE2B | 0.432308 |
| ATXN7L3 | 0.43403 |
| PHF20L1 | 0.435114 |
| TET3 | 0.43612 |
| RCBTB1 | 0.43845 |
| RERE | 0.4384925 |
| SND1 | 0.45013 |
| PRMT7 | 0.45919833 |
| UBE3A | 0.45926 |
| GON4L | 0.463256 |
| USP35 | 0.464112 |
| KDM3B | 0.47176667 |
| L3MBTL1 | 0.473744 |
| MUM1 | 0.476714 |
| DDX52 | 0.477578 |
| ASCC3 | 0.481096 |
| ZNF740 | 0.48353833 |
| UBE2N | 0.48435 |
| BLM | 0.48615833 |
| PCGF5 | 0.48857667 |
| PHF15 | 0.493652 |
| TDRD3 | 0.494698 |
| VPS72 | 0.496832 |
| NSD1 | 0.497444 |
| USP22 | 0.49769 |
| ZSCAN21 | 0.49779167 |
| KIAA1045 | 0.501526 |
| SIRT4 | 0.50639667 |
| YY1 | 0.51137167 |
| NEK9 | 0.5180825 |
| PHC2 | 0.519456 |
| KDM4D | 0.519818 |
| SKIV2L2 | 0.520522 |
| SIRT5 | 0.521988 |
| ASAP1 | 0.531568 |
| SNAPC4 | 0.53386 |
| PRMT1 | 0.535548 |
| HIF1AN | 0.53948714 |
| NCOR1 | 0.54383 |
| EZH2 | 0.548916 |
| SAP30L | 0.54913429 |
| MAEL | 0.55249286 |
| SMARCAD1 | 0.55272667 |
| TNRC18 | 0.554806 |
| UBR3 | 0.555846 |
| BRD1 | 0.56498 |
| PRDM10 | 0.567872 |
| DDX21 | 0.569074 |
| DCTD | 0.569218 |
| SMARCD3 | 0.572164 |
| ZC3HAV1 | 0.57662833 |
| JMJD4 | 0.57866333 |
| WHSC1 | 0.58113667 |
| TAF6L | 0.58259 |
| BDP1 | 0.583544 |
| GADD45A | 0.584522 |
| WDR61 | 0.584542 |
| MED1 | 0.585424 |
| MORC4 | 0.589222 |
| NFRKB | 0.591494 |
| NSUN3 | 0.600362 |
| KDM6A | 0.60108 |
| PARP15 | 0.608438 |
| SETD5 | 0.60896 |
| JMJD1C | 0.61706571 |
| PPIB | 0.617278 |
| RBBP7 | 0.617704 |
| ING2 | 0.619876 |
| CHD8 | 0.62046 |
| RBBP4 | 0.620664 |
| RAG1 | 0.62651286 |
| PHF16 | 0.627595 |
| PRMT5 | 0.629782 |
| CECR2 | 0.63344167 |
| PBRM1 | 0.633834 |
| BRWD3 | 0.634066 |
| USP51 | 0.635182 |
| C16orf53 | 0.638284 |
| KIAA2026 | 0.63828714 |
| ASF1B | 0.64561 |
| MIS18A | 0.646604 |
| SCML2 | 0.648318 |
| SMYD5 | 0.648398 |
| KDM6B | 0.653832 |
| PPARGC1A | 0.654706 |
| DNAJC2 | 0.65473833 |
| RNF168 | 0.654842 |
| SUPV3L1 | 0.655068 |
| RPA3 | 0.66259 |
| RNF20 | 0.665242 |
| BABAM1 | 0.665585 |
| BRD7 | 0.66637 |
| RNF17 | 0.670876 |
| TADA2B | 0.67095333 |
| KDM2A | 0.67115833 |
| HDGFL1 | 0.672062 |
| NR2C1 | 0.673965 |
| MCM3 | 0.675688 |
| MLL | 0.67765667 |
| SLK | 0.680842 |
| DDX17 | 0.681044 |
| DDX42 | 0.682078 |
| ESCO1 | 0.687092 |
| DHX29 | 0.69519833 |
| UHRF2 | 0.69686833 |
| PHF20 | 0.69832857 |
| EYA1 | 0.6992 |
| USP16 | 0.700932 |
| GLI3 | 0.70212 |
| MBD1 | 0.707574 |
| DDX3X | 0.708322 |
| TAF9 | 0.708962 |
| MSL3 | 0.70984 |
| ASXL1 | 0.711672 |
| PPP4C | 0.715162 |
| ZBTB12 | 0.715385 |
| RPS19BP1 | 0.72056714 |
| CXXC1 | 0.72171167 |
| KDM3A | 0.72323667 |
| ARID1B | 0.725382 |
| UTY | 0.726758 |
| SETDB1 | 0.72922571 |
| PHF17 | 0.737048 |
| APBB1 | 0.73915 |
| ARID2 | 0.74405667 |
| FTSJ3 | 0.74438 |
| LCOR | 0.744762 |
| SIRT3 | 0.74696143 |
| MORF4L1 | 0.748912 |
| JMJD7-PLA2G4B | 0.75259667 |
| STAT5B | 0.75345833 |
| SIRT6 | 0.75404714 |
| BRCA1 | 0.754274 |
| ING5 | 0.755398 |
| CDK2AP1 | 0.75959 |
| TRDMT1 | 0.760745 |
| LMNA | 0.763978 |
| POLR2B | 0.77304 |
| BUB3 | 0.777036 |
| PAX5 | 0.778214 |
| FUBP3 | 0.77867333 |
| LMNB2 | 0.77871833 |
| C6orf130 | 0.779606 |
| PRDM13 | 0.78281 |
| SAP25 | 0.782854 |
| MSL2 | 0.78309429 |
| ZBTB9 | 0.78561286 |
| ERCC5 | 0.786076 |
| SETD3 | 0.786638 |
| TBL1XR1 | 0.78854667 |
| DDX11 | 0.795514 |
| BRD3 | 0.796028 |
| TET2 | 0.796418 |
| CCDC101 | 0.79702 |
| BRCA2 | 0.798526 |
| HDAC3 | 0.79923 |
| PHF6 | 0.79957 |
| INO80C | 0.800155 |
| FKBP2 | 0.801736 |
| CHD7 | 0.80374 |
| NAP1L2 | 0.805564 |
| KDM1A | 0.811376 |
| SF3B1 | 0.811874 |
| PHF23 | 0.8129 |
| DHX36 | 0.81537 |
| NSUN4 | 0.821822 |
| METTL8 | 0.82190667 |
| PRMT8 | 0.82559167 |
| SMARCE1 | 0.82604333 |
| WRN | 0.828036 |
| C14orf43 | 0.828864 |
| DDX28 | 0.82983833 |
| STK31 | 0.831795 |
| AFF1 | 0.834325 |
| CBX1 | 0.8365 |
| NEDD4L | 0.838672 |
| TSPYL2 | 0.838706 |
| DPF1 | 0.83920667 |
| KDM4B | 0.84126167 |
| ZNF451 | 0.841745 |
| PIAS1 | 0.84269 |
| KAT6B | 0.843132 |
| SMARCA2 | 0.84676 |
| IKBKAP | 0.847776 |
| YBX2 | 0.850764 |
| C14orf93 | 0.850895 |
| DMAP1 | 0.85409333 |
| TRERF1 | 0.85478857 |
| DNMT3L | 0.85635286 |
| ACTL6B | 0.86272 |
| MCM4 | 0.866698 |
| MBD5 | 0.86868 |
| SMARCA1 | 0.868836 |
| UBE2I | 0.878722 |
| NDUFAF5 | 0.87911333 |
| HR | 0.88049 |
| PRMT10 | 0.882325 |
| UBR5 | 0.887848 |
| RAI1 | 0.888392 |
| DDX27 | 0.893795 |
| EHMT1 | 0.899178 |
| DDX6 | 0.90151 |
| CDA | 0.905562 |
| ASH2L | 0.90705125 |
| SOX15 | 0.91041167 |
| UBE2E1 | 0.911412 |
| EP400 | 0.913315 |
| UTP3 | 0.917168 |
| EPC2 | 0.91831 |
| TCP1 | 0.92105833 |
| USF2 | 0.927488 |
| SETD1B | 0.92950714 |
| ZNF541 | 0.929758 |
| ZMYM2 | 0.929825 |
| HELLS | 0.933685 |
| EMG1 | 0.93799833 |
| EIF4A3 | 0.94021 |
| SUV39H1 | 0.94027 |
| DDX54 | 0.943625 |
| DDX5 | 0.951025 |
| SOX10 | 0.95983 |
| KLHDC3 | 0.960302 |
| HPRT1 | 0.969264 |
| TLE1 | 0.97152667 |
| DDX41 | 0.973106 |
| KAT5 | 0.975758 |
| DDX39B | 0.978672 |
| MAP3K12 | 0.9788 |
| POGZ | 0.986 |
| DPY30 | 0.98792 |
| ART1 | 0.989605 |
| SIK1 | 0.99178833 |
| ARID1A | 0.99222571 |
| FBXW9 | 0.994245 |
| BAHD1 | 0.994416 |
| JARID2 | 1.01771143 |
| WHSC1L1 | 1.020324 |
| PRDM16 | 1.043404 |
| MLL4 | 1.04496833 |
| KDM8 | 1.04684167 |
| PHF13 | 1.060628 |
| KDM5D | 1.064752 |
| PHIP | 1.066008 |
| RPS6KA4 | 1.068886 |
| DDX1 | 1.073698 |
| CBX4 | 1.09476 |
| MBD6 | 1.10097167 |
| POLR1B | 1.10928 |
| RAD54L2 | 1.115076 |
| DHX16 | 1.11724 |
| WBSCR27 | 1.119308 |
| SIN3B | 1.12020667 |
| PRDM11 | 1.1329 |
| MYB | 1.134064 |
| HDAC9 | 1.14666 |
| CDC34 | 1.14687 |
| SAP130 | 1.15010667 |
| GTF2H1 | 1.15050667 |
| PCGF2 | 1.151825 |
| BCORL1 | 1.156682 |
| ATOH1 | 1.156892 |
| HNRNPA1 | 1.157175 |
| ADAR | 1.16675167 |
| GTF2F1 | 1.178176 |
| BAZ2A | 1.18074833 |
| SMARCD2 | 1.181084 |
| NAA15 | 1.18849667 |
| WDR5 | 1.189496 |
| HCFC1 | 1.194672 |
| ORC1 | 1.199822 |
| HMGA2 | 1.20182 |
| TRIM37 | 1.208512 |
| HUWE1 | 1.219846 |
| KEAP1 | 1.227966 |
| FBXO11 | 1.23004 |
| TAF5L | 1.242128 |
| PHF12 | 1.25690286 |
| MSH6 | 1.313894 |
| UBR4 | 1.325288 |
| EHMT2 | 1.32939571 |
| FBXO17 | 1.348732 |
| METTL2A | 1.37949 |
| HDAC7 | 1.380272 |
| RBBP5 | 1.401376 |
| CDY2B | 1.4031125 |
| MBD3 | 1.413504 |
| NOC2L | 1.41865 |
| SMARCA4 | 1.43164 |
| PAX9 | 1.44152167 |
| CHD4 | 1.46402 |
| NAA10 | 1.474764 |
| FBXL19 | 1.53445333 |
| RUVBL1 | 1.535796 |
| DDB1 | 1.563694 |
| FLYWCH1 | 1.59535143 |
| ERCC2 | 1.64447333 |
| DDX46 | 1.816905 |
| KAT2A | 1.85034 |
| PHF5A | 2.306418 |
| CDY2A | 3.27143 |

**Supplementary Table S2**

Clinical data MDS patient cohort. RCMD, refractory cytopenias with multilineage dysplasia; CMML2, chronic myelomonocytic leukemia type 2; RAEB, refractory anemia with excess blasts; MPD, myeloproliferative disorder; del, deletion; Tris, trisomy. IWG, international working group; HI, hematological improvement; HI-E, hematological improvement in erythroids; HI-N, hematological improvement in neutrophils; HI-P, hematological improvement in platelets; SD, stable disease; PD, progressive disease; CR, complete remission/response.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sample.No.MLL** | **Nanostring.ID** | **Age Vidaza** | **Gender** | **Date diagnosis** | **WHO** | **Tris8** | **X5q** | **chr7** | **abnormal.karyotype** | **Response** | **Time.of.death** | **date.firstdiagnosis** | **Date.Vidaza.**  **Start** | **last.follow.up** | **Number.cycles.**  **AZA** | **Response.IWG** | **Comments** |
| 05-002017 | JD-1 | 72 | f | 30/8/03 | sAML/MDS | no | no | no | no | no | 15/2/07 | 30/8/03 | 17/11/05 | 15/2/07 | 5 | KM-CR |  |
| 05-003477 | JD-2 | 81 | m | 20/12/05 | RAEB II | no | no | yes | yes | no | 20/3/07 | 20/12/05 | 9/1/06 | 20/3/07 | 3 | SD without HI | |
| 06-013375 | JD-4 | 78 | m | 28/12/06 | RAEB II | no | no | no | no | no | 20/4/07 | 28/12/06 | 16/1/07 | 20/4/07 | 3 | Failure/death due to infection | |
| 07-004170 | JD-5 | 75 | m | 30/3/07 | sAML/MDS | no | no | no | yes | yes | 30/12/08 | 30/3/07 | 23/4/07 | 30/12/08 | 6 | CR+CCR |  |
| 07-006418 | JD-6 | 70 | m | 3/5/07 | RAEB II | no | no | no | no | yes | unknown | 3/5/07 | 13/6/07 | 31/10/07 | 5 | SD + HI-N |  |
| 07-006554 | JD-7 | 65 | m | 13/6/06 | RAEB II | no | no | no | yes | no | 1/3/08 | 13/6/06 | 23/7/07 | 1/3/08 | 4 | SD without HI | |
| 07-009067 | JD-8 | 74 | f | 10/4/06 | sAML/MDS | no | no | yes | yes | no | 15/12/07 | 10/4/06 | 28/6/07 | 15/12/07 | 3 | Failure/progression | |
| 07-019138 | JD-10 | 74 | m | 28/9/05 | sAML/MDS | no | no | no | no | no | 27/2/09 | 28/9/05 | 14/1/08 | 27/2/09 | 8 | SD without HI | |
| 07-019907 | JD-11 | 71 | f | 12/12/07 | RAEB I | no | yes | no | yes | no | 20/8/08 | 12/12/07 | 4/2/08 | 20/8/08 | 4 | SD without HI | |
| 08-010265 | JD-12 | 74 | f | 2/11/02 | RCMD | yes | yes | no | yes | yes | 3/5/09 | 2/11/02 | 19/9/05 | 3/5/09 | 6 | SD + HI-E |  |
| 08-016665 | JD-13 | 77 | m | 14/8/08 | CMML II | no | no | no | yes | no | 20/11/09 | 14/8/08 | 25/5/09 | 20/11/09 | 4 | SD without HI | |
| 09-004394 | JD-14 | 72 | f | 26/1/09 | RAEB II | no | yes | yes | yes | no | 17/8/09 | 26/1/09 | 17/3/09 | 17/8/09 | 4 | Failure/death due to infection | |
| 09-010307 | JD-15 | 68 | m | 10/1/08 | RAEB II | no | no | yes | yes | no | 10/10/10 | 10/1/08 | 7/12/09 | 10/10/10 | 5 | Failure/progression | |
| 09-015623 | JD-16 | 65 | f | 12/6/07 | sAML/MDS | no | yes | no | yes | no | 30/8/10 | 12/6/07 | 11/1/10 | 30/8/10 | 3 | SD |  |
| 09-017511 | JD-17 | 84 | m | 21/5/08 | sAML/MDS | no | no | no | no | no | 16/1/11 | 21/5/08 | 5/8/09 | 16/1/11 | 20 | SD without HI | |
| 10-001154 | JD-18 | 77 | m | 14/1/10 | sAML/MDS | no | no | no | no | no | 20/1/11 | 14/1/10 | 1/2/10 | 20/1/11 | 8 | SD without HI | |
| 10-004703 | JD-19 | 73 | f | 22/4/08 | RAEB II | yes | no | no | yes | no | 24/9/10 | 22/4/08 | 2/6/08 | 24/9/10 | 5 | SD |  |
| 10-010880 | JD-20 | 68 | f | 20/8/08 | CMML II | yes | no | no | yes | yes | 27/5/13 | 20/8/08 | 16/6/10 | 27/5/13 | 4 | SD + HI-E+P |  |
| 10-026543 | JD-21 | 74 | f | 17/9/10 | MDS/MPD | no | no | yes | yes | no | 13/12/11 | 17/9/10 | 31/1/11 | 13/12/11 | 6 | SD without HI | |
| 10-029355 | JD-22 | 69 | f | 29/6/09 | RAEB II | no | no | no | no | yes | 31/1/12 | 29/6/09 | 26/1/10 | 31/1/12 | 17 | HI-P | Hb not assessable due to hemolysis |
| 10-031857 | JD-23 | 71 | f | 3/2/09 | RAEB II | no | yes | no | yes | no | 9/3/11 | 3/2/09 | 24/11/10 | 9/3/11 | 3 | SD |  |
| 11-001798 | JD-25 | 65 | m | 15/3/07 | sAML/MDS | no | no | no | yes | yes | xxx | 15/3/07 | 1/1/11 | 22/4/13 | 5 | HI-E, HI-P |  |
| 11-002381 | JD-26 | 77 | m | 8/12/10 | RAEB I | no | no | no | no | yes | 21/1/13 | 8/12/10 | 4/7/11 | 21/1/13 | 16 | HI-E |  |
| 11-004721 | JD-27 | 58 | f | 28/1/11 | sAML/MDS | no | no | no | no | no | xxx | 28/1/11 | 30/5/11 | 22/12/14 | 4 | SD without HI | |
| 11-008692 | JD-29 | 67 | m | 2/6/09 | sAML/MDS | no | no | no | yes | yes | xxx | 2/6/09 | 4/4/11 | 22/12/14 | 4 | SD+HI-N |  |
| 11-019839 | JD-30 | 65 | f | 27/7/11 | tAML/MDS | no | no | no | no | yes | 23/11/11 | 27/7/11 | 16/8/11 | 23/11/11 | 3 | HI-P |  |
| 11-022308 | JD-32 | 68 | m | 23/7/10 | pAML | no | no | no | no | no | xxx | 23/7/10 | 7/2/12 | 10/12/14 | 4 | SD | censored after allo |
| 11-025179 | JD-34 | 81 | m | 8/11/06 | RAEB II | no | no | no | yes | no | 10/12/12 | 8/11/06 | 15/8/11 | 10/12/12 | 6 | SD without HI | |
| 11-025748 | JD-35 | 73 | m | 7/2/11 | RAEB II | no | no | no | no | no | 23/8/13 | 7/2/11 | 19/12/11 | 23/8/13 | 6 | SD |  |
| 11-030187 | JD-36 | 65 | m | 23/7/07 | RAEB II | yes | no | no | yes | yes | 8/1/13 | 23/7/07 | 26/9/11 | 8/1/13 | 4 | SD + HI-E |  |
| 11-031302 | JD-37 | 68 | f | 7/9/11 | RAEB I | no | no | no | yes | no | xxx | 7/9/11 | 29/9/11 | 24/11/14 | 4 | PD | AML progression, CR after allo |
| 11-031667 | JD-38 | 72 | m | 4/8/09 | RAEB I | no | yes | yes | yes | yes | 5/11/11 | 4/8/09 | 9/9/09 | 5/11/11 | 25 | HI-P | recurrence due to therapy break, 2.response with lenalidomid |
| 11-035065 | JD-39 | 68 | m | 28/1/09 | tAML/MDS | no | no | no | no | yes | 23/11/12 | 28/1/09 | 13/12/10 | 23/11/12 | 14 | HI-P, HI-N |  |
| 11-035988 | JD-40 | 69 | f | 29/6/07 | RAEB II | no | no | no | no | yes | xxx | 29/6/07 | 21/2/12 | 9/7/13 | 9 | PR |  |
| 11-038468 | JD-41 | 77 | f | 16/11/10 | tAML/MDS | no | no | no | no | yes | 11/1/13 | 16/11/10 | 28/12/10 | 11/1/13 | 15 | PR | recurrence due to therapy break (Chemo CCC) |
| 11-044820 | JD-42 | 50 | m | 29/12/11 | RAEB II | no | yes | no | yes | no | xxx | 29/12/11 | 16/1/12 | 22/12/14 | 3 | PD | CR after allo |

**Supplementary Table S3**

Mutation status MDS patient cohort

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MLL.ID** | **Nanostring.ID** | **Gene** | **Nucleotide change** | **Aminoacid change** | **Load** | **Gene** | **Nucleotide change** | **Aminoacid change** | **Load** | **Gene** | **Nucleotide change** | **Aminoacid change** | **Load** |
| 05-002017 | JD-1 | DNMT3A | c.1627G>T | p.Gly543Cys | 46 | KRAS | c.36\_38dupTGG | p.Gly13dup | 7 | NRAS | c.35G>T | p.Gly12Val | 6 |
|  |  | SRSF2 | c.284C>G | p.Pro95Arg | 33 | TET2 | c.2800G>T c.3622A>T | p.Gly934\* p.Lys1208\* | 27 50 |  |  |  |  |
| 05-003477 | JD-2 | ASXL1 | c.1773C>A c.2388G>A | p.Tyr591\* p.Trp796\* | 20 26 | SRSF2 | c.284\_307del | p.Pro95\_Arg102del | 40 |  |  |  |  |
| 06-013375 | JD-4 | ASXL1 | c.1934dup | p.Gly646Trpfs\*12 | 16 | IDH1 | c.395G>A | p.Arg132His | 43 | SRSF2 | c.284C>A | p.Pro95His | 43 |
| 07-004170 | JD-5 | RUNX1 | c.307G>T | p.Val103Phe | 57 | SF3B1 | c.1998G>T | p.Lys666Asn | 43 |  |  |  |  |
| 07-006418 | JD-6 | ASXL1 | c.1934dup | p.Gly646Trpfs\*12 | 15 | RUNX1 | c.606\_607delinsAT c.1345delinsAGGACCCT | p.Gln203\* p.Val449Argfs\*126 | 38 28 | TET2 | c.986\_987insC | p.Glu330\* | 39 |
| 07-006554 | JD-7 | ASXL1 | c.1774C>T | p.Gln592\* | 51 | SRSF2 | c.284C>T | p.Pro95Leu | 61 | TP53 | c.723del | p.Cys242Alafs\*5 | 82 |
| 07-009067 | JD-8 | DNMT3A | c.2150A>G c.2651C>T | p.Asn717Ser p.Ala884Val | 48 45 | TET2 | c.822del c.3732\_3733del | p.Asn275Ilefs\*18 p.Tyr1245Leufs\*22 | 56  45 |  |  |  |  |
| 07-019138 | JD-10 | ASXL1 | c.1934dup | p.Gly646Trpfs\*12 | 17 | IDH1 | c.394C>T | p.Arg132Cys | 22 | IDH2 | c.419G>A | p.Arg140Gln | 6 |
|  |  | RUNX1 | c.428-2A>G | p.splice site mutation | 42 | SRSF2 | c.284C>G | p.Pro95Arg | 44 | TET2 | c.2689C>T c.3755T>C | p.Gln897\* p.Leu1252Pro | 50 46 |
| 07-019907 | JD-11 | TP53 | c.946\_967del c.714dup | p.Pro316Trpfs\*22 p.Asn239\* | 46 43 |  |  |  |  |  |  |  |  |
| 08-010265 | JD-12 | NRAS | c.37G>C | p.Gly13Arg | 45 |  |  |  |  |  |  |  |  |
| 08-016665 | JD-13 | ASXL1 | c.1585C>T | p.Gln529\* | 45 | EZH2 | c.100del | p.Arg34Glufs\*5 | 91 | TET2 | c.4481C>G | p.Ser1494\* | 46 |
|  |  | TP53 | c.733G>A | p.Gly245Ser | 48 |  |  |  |  |  |  |  |  |
| 09-004394 | JD-14 | TP53 | c.732del c.375+1G>A c.314\_375del | p.Gly245Alafs\*2 p.splice site mutation p.Gly105Valfs\*23 | 43 28 11 |  |  |  |  |  |  |  |  |
| 09-010307 | JD-15 | SRSF2 | c.284C>T | p.Pro95Leu | 33 | TET2 | c.3824G>T | p.Gly1275Val | 93 |  |  |  |  |
| 09-015623 | JD-16 | IDH2 | c.419G>A | p.Arg140Gln | 24 | RUNX1 | c.416\_417insGGCA | p.Ser140Alafs\*47 | 10 | SF3B1 | c.2098A>G | p.Lys700Glu | 41 |
|  |  | TP53 | c.763A>T | p.Ile255Phe | 4 |  |  |  |  |  |  |  |  |
| 09-017511 | JD-17 | IDH1 | c.394C>T | p.Arg132Cys | 5 | NRAS | c.35G>A c.35G>T | p.Gly12Asp p.Gly12Val | 4 7 | RUNX1 | c.412\_413dup | p.Arg139Valfs\*11 | 13 |
|  |  | SRSF2 | c.284C>T | p.Pro95Leu | 38 |  |  |  |  |  |  |  |  |
| 10-001154 | JD-18 | ASXL1 | c.1934dup | p.Gly646Trpfs\*12 | 28 | SRSF2 | c.283C>A | p.Pro95Thr | 45 | TET2 | c.3851C>T c.3781C>T | p.Ser1284Phe p.Arg1261Cys | 49 47 |
| 10-004703 | JD-19 | RUNX1 | c.955del | p.Arg319Alafs\*248 | 37 | SRSF2 | c.284C>A | p.Pro95His | 44 |  |  |  |  |
| 10-010880 | JD-20 | ASXL1 | c.1934dup | p.Gly646Trpfs\*12 | 26 | NRAS | c.38G>A | p.Gly13Asp | 42 | RUNX1 | c.235T>A | p.Trp79Arg | 80 |
| 10-026543 | JD-21 | ASXL1 | c.1934dup | p.Gly646Trpfs\*12 | 16 | DNMT3A | c.875T>C | p.Ile292Thr | 46 | EZH2 | c.81\_84del | p.Arg27Serfs\*11 | 56 |
|  |  | KRAS | c.34G>C | p.Gly12Arg | 4 | NRAS | p.Gly12Ser | 42,00 | 42 | TET2 | c.1771del c.4706dup | p.Gln591Serfs\*10 p.Tyr1569\* | 49  46 |
| 10-029355 | JD-22 | ASXL1 | c.1934dup | p.Gly646Trpfs\*12 | 50 | NRAS | c.35G>A | p.Gly12Asp |  | SRSF2 | c.284C>A | p.Pro95His | 38 |
| 10-031857 | JD-23 | IDH1 | c.394C>T | p.Arg132Cys | 31 | RUNX1 | c.1172T>G | p.Met391Arg | 50 | SF3B1 | c.2225G>A | p.Gly742Asp | 38 |
| 11-001798 | JD-25 | ASXL1 | c.1940\_1941insCG | p.Gly649Valfs\*54 | 40 | EZH2 | c.2069G>A | p.Arg690His | 32 | RUNX1 | c.146\_147dupGC | p.Ser50Alafs\*46 | 40 |
|  |  | SRSF2 | c.284C>A | p.Pro95His | 43 |  |  |  |  |  |  |  |  |
| 11-002381 | JD-26 | RUNX1 | c.667\_668insCG c.133dup | p.Arg223Profs\*5 p.Arg45Lysfs\*66 | 3,5 18 | SF3B1 | c.1998G>T | p.Lys666Asn | 35 | SRSF2 | c.284C>T | p.Pro95Leu | 25 |
|  |  | TET2 | c.3863G>A | p.Gly1288Asp | 40 |  |  |  |  |  |  |  |  |
| 11-004721 | JD-27 | ASXL1 | c.1900\_1922del | p.Glu635Argfs\*15 | 29 |  |  |  |  |  |  |  |  |
| 11-008692 | JD-29 | ASXL1 | c.1900\_1922del | p.Glu635Argfs\*15 | 39 | RUNX1 | c.513T>A c.341\_342insTA | p.Asp171Glu p.Ala115Argfs\*4 | 27  9 | SRSF2 | c.284C>T | p.Pro95Leu | 44 |
| 11-019839 | JD-30 | ASXL1 | c.3558del | p.Gly1187Valfs\*30 | 10 | IDH2 | c.419G>A | p.Arg140Gln |  | SRSF2 | c.284C>A | p.Pro95His | 11 |
| 11-022308 | JD-32 | TET2 | c.3872G>A | p.Trp1291\* | 34 |  |  |  |  |  |  |  |  |
| 11-025179 | JD-34 |  |  |  |  |  |  |  |  |  |  |  |  |
| 11-025748 | JD-35 | SRSF2 |  |  |  | TET2 | c.1469del c.4500\_4501insT | p.Ile490Asnfs\*7 p.Gln1501Serfs\*3 | 34 36 |  |  |  |  |
| 11-030187 | JD-36 | IDH2 | c.419G>A | p.Arg140Gln | 38,2 | SRSF2 | c.284C>T | p.Pro95Leu | 41,1 |  |  |  |  |
| 11-031302 | JD-37 | RUNX1 | c.520C>T | p.Arg174\* | 42 | SRSF2 | c.284\_307del | p.Pro95\_Arg102del | 27 |  |  |  |  |
| 11-031667 | JD-38 | IDH1 | c. 395C>G | p.Arg132Gly | 25 | TP53 | c.614A>G | p.Tyr205Cys | 49 |  |  |  |  |
| 11-035065 | JD-39 | ASXL1 |  |  |  |  |  |  |  |  |  |  |  |
| 11-035988 | JD-40 | ASXL1 | c.1927\_1928insA | p.Gly643Glufs\*15 | 50 |  |  |  |  |  |  |  |  |
| 11-038468 | JD-41 | DNMT3A | c.2128T>A | p.Cys710Ser | 9 |  |  |  |  |  |  |  |  |
| 11-044820 | JD-42 | IDH1 | c.394C>T | p.Arg132Cys | 30 |  |  |  |  |  |  |  |  |

**Supplementary Table S4**

Nanostring codeset

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Customer Identifier** | **Accession** | **Position** | **Target Sequence** | **Tm CP** | **Tm RP** | **Flags** | **HUGO Gene** | **NSID** |
| ASXL1 | NM\_015338.5 | 5796-5895 | GCAGGTGAATTCCTCTGCTTGACATCCTCCCTGTCACTTTGGACCCTATGGGAGTGGGCATCTCCACGCACCTGTGTATGTGAAAGTCATTTTACATTTC | 83 | 78 |  | ASXL1 | NM\_015338.5:5795 |
| BAZ1A | NM\_013448.2 | 5095-5194 | CCCTCGTAACACAAGTGAAGCAAAAGCTGGAACTAGGCTTCAAGCATTTTTTCATATTCAGGCTCAAAAGCTTGGACTCCACGTCACACCCAGTAATGTG | 82 | 81 |  | BAZ1A | NM\_013448.2:5094 |
| BAZ1B | NM\_032408.3 | 1861-1960 | TCGTCTTCTCTCTAGTGAAGATAGAGCTCGTCTCCCAGAAGAATTGCGAAGTCTTGTTCAAAAACGCTATGAACTTCTAGAGCACAAAAAGAGGTGGGCT | 80 | 82 |  | BAZ1B | NM\_032408.3:1860 |
| BCL2L10 | NM\_020396.2 | 771-870 | TTTTATCTGAATGCATACAAGGAGTCCTGAGGTGGTGATTTGGCCAGTGTTTTAACTTGTGACAAGTACTCAGGTGTGAGGACAAGAATGCAAATGGCTC | 80 | 83 |  | BCL2L10 | NM\_020396.2:770 |
| CDA | NM\_001785.2 | 323-422 | AATCTTCAAAGGGTGCAACATAGAAAATGCCTGCTACCCGCTGGGCATCTGTGCTGAACGGACCGCTATCCAGAAGGCCGTCTCAGAAGGGTACAAGGAT | 86 | 86 |  | CDA | NM\_001785.2:322 |
| CHRAC1 | NR\_023360.2 | 368-467 | TTTTAGCTAGTAAATACCTGAAAATGCTTAAAGAGGAAAAGAGGGAAGAAGATGAGGAGAATGACAATGATAATGAAAGTGACCATGATGAAGCTGACTC | 79 | 85 |  | CHRAC1 | NR\_023360.2:367 |
| CREBBP | NM\_004380.2 | 1302-1401 | GTGTCAGAGACGAGAGCAAGCAAACGGAGAGGTTCGGGCCTGCTCGCTCCCGCATTGTCGAACCATGAAAAACGTTTTGAATCACATGACGCATTGTCAG | 84 | 81 |  | CREBBP | NM\_004380.2:1301 |
| DNMT1 | NM\_001379.2 | 1496-1595 | CAAAACCAATCTATGATGATGACCCATCTCTTGAAGGTGGTGTTAATGGCAAAAATCTTGGCCCCATAAATGAATGGTGGATCACTGGCTTTGATGGAGG | 81 | 83 |  | DNMT1 | NM\_001379.2:1495 |
| DNMT3A | NM\_022552.4 | 2057-2156 | GGCGAGAGGACTGGCCCTCCCGGCTCCAGATGTTCTTCGCTAATAACCACGACCAGGAATTTGACCCTCCAAAGGTTTACCCACCTGTCCCAGCTGAGAA | 83 | 83 |  | DNMT3A | NM\_022552.4:2056 |
| EP300 | NM\_001362843.2 | 438-537 | GGGCCGCCTTCAGCCAAGCGGCCTAAACTCTCATCTCCGGCCCTCTCGGCGTCCGCCAGCGATGGCACAGATTTTGGCTCTCTATTTGACTTGGAGCACG | 93 | 82 |  | EP300 | NM\_001362843.2:437 |
| ERCC2 | NM\_000400.2 | 241-340 | CATCTACTGCTCAAGAACTGTGCCAGAGATTGAGAAGGTGATTGAAGAGCTTCGAAAGTTGCTCAACTTCTATGAGAAGCAGGAGGGCGAGAAGCTGCCG | 81 | 81 |  | ERCC2 | NM\_000400.2:240 |
| FBXO11 | NM\_018693.2 | 201-300 | TGCAGATATGGTTGCAGAAGAATCAGGTCCTGGTGCACAAAATAGTCCATACCAACTTCGTAGAAAAACTCTTTTGCCGAAAAGAACAGCGTGTCCCACA | 84 | 80 |  | FBXO11 | NM\_018693.2:200 |
| FLYWCH1 | NM\_020912.1 | 232-331 | GCCAGCGCCGTGACCCAGGTGTGGGGGATGATGGTGACGCTTCTCACTCACGTGTGAAGGACGGAACCACTGCACTCCAGGTTCCTTGCTGGGTGCTGAG | 83 | 83 |  | FLYWCH1 | NM\_020912.1:231 |
| GAPDH | NM\_001256799.1 | 387-486 | GAACGGGAAGCTTGTCATCAATGGAAATCCCATCACCATCTTCCAGGAGCGAGATCCCTCCAAAATCAAGTGGGGCGATGCTGGCGCTGAGTACGTCGTG | 85 | 86 | HK | GAPDH | NM\_001256799.1:386 |
| GUSB | NM\_000181.3 | 1900-1999 | CCGATTTCATGACTGAACAGTCACCGACGAGAGTGCTGGGGAATAAAAAGGGGATCTTCACTCGGCAGAGACAACCAAAAAGTGCAGCGTTCCTTTTGCG | 84 | 83 | HK | GUSB | NM\_000181.3:1899 |
| HELLS | NM\_018063.3 | 2041-2140 | GATGGGTCCATGTCTTACTCAGAGAGAGAAAAAAACATGCACAGCTTCAACACGGATCCAGAGGTGTTTATCTTCTTAGTGAGTACACGAGCTGGTGGCC | 83 | 83 |  | HELLS | NM\_018063.3:2040 |
| IDH1 | NM\_005896.3 | 419-518 | TATGATTTAGGCATAGAGAATCGTGATGCCACCAACGACCAAGTCACCAAGGATGCTGCAGAAGCTATAAAGAAGCATAATGTTGGCGTCAAATGTGCCA | 83 | 84 |  | IDH1 | NM\_005896.3:418 |
| IDH2 | NM\_002168.2 | 945-1044 | CACCGGCTCATTGATGACATGGTGGCTCAGGTCCTCAAGTCTTCGGGTGGCTTTGTGTGGGCCTGCAAGAACTATGACGGAGATGTGCAGTCAGACATCC | 85 | 85 |  | IDH2 | NM\_002168.2:944 |
| MACROH2A1 | NM\_001040158.1 | 546-645 | GTTGCTAGCGAAGAAGCGGGGATCCAAAGGAAAGTTGGAAGCCATCATCACACCACCCCCAGCCAAAAAGGCCAAGTCTCCATCCCAGAAGAAGCCTGTA | 79 | 83 |  | MACROH2A1 | NM\_001040158.1:545 |
| MACROH2A2 | NM\_018649.2 | 1041-1140 | ACAGAAGCTGTCCTTAACCCAGAGTGACATCAGCCATATTGGCTCCATGAGAGTGGAGGGCATTGTCCACCCAACCACAGCCGAAATTGACCTCAAAGAA | 82 | 82 |  | MACROH2A2 | NM\_018649.2:1040 |
| MALSU1 | NM\_138446.1 | 281-380 | CGCGGCAGATCATACTGGTCCCAAGTTTGACATCGATATGATGGTTTCACTTCTGAGGCAAGAAAATGCAAGAGACATTTGTGTGATCCAGGTTCCTCCA | 79 | 81 |  | MALSU1 | NM\_138446.1:280 |
| MRPL4 | NM\_015956.2 | 767-866 | AAGTTACTACTACATGCTGCCCATGAAGGTGCGGGCGCTGGGTCTCAAAGTGGCACTGACCGTCAAGCTGGCCCAGGACGACCTGCACATCATGGACTCC | 89 | 92 |  | MRPL4 | NM\_015956.2:766 |
| MRPL52 | NM\_178336.2 | 275-374 | AGGAAATGGACGCTGGATTACAAGCATGGCAGCTCAGGCAGCAGAAGTTGCAGGAAGAACAAAGGAAGCAGGAAAATGCTCTTAAACCCAAAGGGGCTTC | 82 | 83 |  | MRPL52 | NM\_178336.2:274 |
| MRPS26 | NM\_030811.3 | 701-800 | CATGGCGGAAGAGTTGGCCCTGACCTGGAATAAAGCAGTTGGTGTTGCTTATGAGGAAGGTTCAGCCTTATCCAGCACAGCCTTCACGTTTTGCCCTCTG | 83 | 82 |  | MRPS26 | NM\_030811.3:700 |
| MRTO4 | NM\_016183.3 | 309-408 | AGGCTTGGAATTGAAACAAAACCTGATAGAAGAGCTTCGGAAATGTGTGGACACCTACAAGTACCTTTTCATCTTCTCTGTGGCCAACATGAGGAACAGC | 83 | 83 |  | MRTO4 | NM\_016183.3:308 |
| NAA10 | NM\_003491.3 | 990-1089 | CTTTCACAATAAATTCGCTCCGTGGCACTGGGGAACTTTGTGTGTGAGCGCGCGCACATTTAGAGGGTGTGTTTCTCCAGGTCCTCTGGTGGGGATGTGA | 80 | 84 |  | NAA10 | NM\_003491.3:989 |
| NAA15 | NM\_057175.3 | 4146-4245 | GTGGAAACAGAGGTGCAAGCCAGAGGCAATGTAATATGCTGTAAGGCTAGTGCAGATGGGAGCTTTTTAGAAGGGGCTAAGTGCTGGTGTCAGGGAAATT | 82 | 81 |  | NAA15 | NM\_057175.3:4145 |
| NSUN3 | NM\_022072.3 | 311-410 | GGAAAAGGATTTACATTTGAAGGGCTATCACACACTCTCTCAGGGATCTTTACCCAACTATCCTAAATCAGTGAAGTGTTACCTTAGCAGAACTCCGGGC | 81 | 84 |  | NSUN3 | NM\_022072.3:310 |
| POLE3 | NR\_027261.1 | 1408-1507 | AGACCCACTTGGCCCAAAACCTTTCTATATTGCCTGTAGATGATCGGCCTGCTGGTGTGGTAGTAATCTGATCACAGATATTCTTAAATCAGCAGTGTGG | 84 | 79 |  | POLE3 | NR\_027261.1:1407 |
| POLR1A | NM\_015425.3 | 26-125 | AGCAATCATAAAATGGGAGGTTGCAAGCTCATGGTTTGAAAGACTTCGTCACGGAAGCTAAAAGCTCTATACACCCGATTTGCCTCGGAGGAATTTTCCT | 80 | 81 |  | POLR1A | NM\_015425.3:25 |
| POLR1B | NM\_019014.3 | 3321-3420 | GGAGAACTCGGCCTTAGAATACTTTGGTGAGATGTTAAAGGCTGCTGGCTACAATTTCTATGGCACCGAGAGGTTATATAGTGGCATCAGTGGGCTAGAA | 81 | 80 |  | POLR1B | NM\_019014.3:3320 |
| POLR1C | NM\_004875.2 | 271-370 | ATTGCCAATGCTTTTCGACGAATTCTGCTAGCTGAGGTGCCAACTATGGCTGTGGAGAAGGTCCTGGTGTACAATAATACATCCATTGTTCAGGATGAGA | 82 | 81 |  | POLR1C | NM\_004875.2:270 |
| POLR1E | NM\_022490.1 | 1214-1313 | GCCAAAGCCATGAGGCTGAAGATCTCCAAAAGAAGGGTGTCTGTGGCCGCCGGCAGTGAAGAAGATCACAAACTGGGCACCCTGTCCCTCCCGCTGCCTC | 83 | 86 |  | POLR1E | NM\_022490.1:1213 |
| POLR3D | NM\_001722.2 | 1718-1817 | CTTAAGCACTCGGTCCCAGCTTGCCAGTTCCTGGTTCTGTGTCCTTGGACAAACTACCTAACCTTTCTGAGCCTCCTATACCTCATCCGACACAAATGGG | 83 | 84 |  | POLR3D | NM\_001722.2:1717 |
| POLR3H | NM\_138338.2 | 691-790 | GTGGACCCTACCAGCCTGCGGGAAGGTGGTATGGCCGGCTGTGAAGACAACAGCAGCTGAGGCCGATGCTAAGGAGATAGTGTCTCGAGCTGGACAGTGA | 83 | 83 |  | POLR3H | NM\_138338.2:690 |
| PWWP2B | NM\_001098637.1 | 1145-1244 | CCCTGCCGGTGGGCTGGCGGACTTGTCTTCTGGAAGTTCGGGTGAGGACGATGACTTCAAGAGCTGTCCCCAGGGTCCACAGGGACGCGAGGGCTTGGCT | 87 | 87 |  | PWWP2B | NM\_001098637.1:1144 |
| RING1 | NM\_002931.3 | 385-484 | GCCTCCACAGATTCTGCTCTGACTGCATTGTCACAGCCCTACGGAGCGGGAACAAGGAGTGTCCTACCTGCCGAAAGAAGCTGGTGTCCAAGCGATCCCT | 85 | 86 |  | RING1 | NM\_002931.3:384 |
| RIOX2 | NM\_153182.3 | 499-598 | AGAAAAGGGCAACGATTCAGTTTCACCAACCTCAGAGATTTAAGGATGAGCTTTGGAGGATCCAGGAGAAGCTGGAATGTTACTTTGGCTCCTTGGTTGG | 81 | 82 |  | RIOX2 | NM\_153182.3:498 |
| RRM1 | NM\_001033.3 | 2445-2544 | ACATCCACATTGCTGAGCCTAACTATGGCAAACTCACTAGTATGCACTTCTACGGCTGGAAGCAGGGTTTGAAGACTGGGATGTATTATTTAAGGACAAG | 83 | 83 |  | RRM1 | NM\_001033.3:2444 |
| RRM2 | NM\_001034.1 | 491-590 | TTCCTTTTGGACCGCCGAGGAGGTTGACCTCTCCAAGGACATTCAGCACTGGGAATCCCTGAAACCCGAGGAGAGATATTTTATATCCCATGTTCTGGCT | 82 | 78 |  | RRM2 | NM\_001034.1:490 |
| RRP1 | NM\_003683.5 | 247-346 | CTGCTGAAGGTGTGGAAAGGACTGTTTTATTGCATGTGGATGCAGGACAAGCCACTCCTCCAGGAAGAATTAGGAAGGACTATTTCCCAGCTCGTTCATG | 83 | 83 |  | RRP1 | NM\_003683.5:246 |
| RRP9 | NM\_004704.3 | 1017-1116 | CATCGACTGCATCCACCTAATCAATGAGGAGCACATGGTGTCCGGCGCGGACGATGGCTCTGTGGCCTTGTGGGGTCTCTCCAAGAAGCGACCACTTGCC | 84 | 84 |  | RRP9 | NM\_004704.3:1016 |
| SLC28A3 | NM\_001199633.1 | 826-925 | GACCTGTCTTATGGGGAATCGGGCTACAGTTTCTTCTTGGGCTCTTGATTCTAAGGACTGACCCTGGATTTATAGCTTTTGATTGGTTGGGCAGACAAGT | 79 | 80 |  | SLC28A3 | NM\_001199633.1:825 |
| SLC29A1 | NM\_001078177.1 | 1726-1825 | GCCTCTGCATGTGCTTCGGGCCCAAGAAAGTGAAGCCAGCTGAGGCAGAGACCGCAGGAGCCATCATGGCCTTCTTCCTGTGTCTGGGTCTGGCACTGGG | 82 | 82 |  | SLC29A1 | NM\_001078177.1:1725 |
| SMARCA5 | NM\_003601.2 | 2666-2765 | AACGAGAAAGAAAAGCCAACTATGCCGTTGATGCATATTTCAGGGAAGCTCTTCGTGTTAGTGAACCTAAAGCACCCAAGGCTCCTCGACCTCCAAAACA | 83 | 83 |  | SMARCA5 | NM\_003601.2:2665 |
| TET2 | NM\_001127208.2 | 2883-2982 | CTCATAATGTCCAAATGGGACTGGAGGAAGTACAGAATATAAATCGTAGAAATTCCCCTTATAGTCAGACCATGAAATCAAGTGCATGCAAAATACAGGT | 81 | 79 |  | TET2 | NM\_001127208.2:2882 |
| TP53 | NM\_000546.2 | 1331-1430 | GGGGAGCAGGGCTCACTCCAGCCACCTGAAGTCCAAAAAGGGTCAGTCTACCTCCCGCCATAAAAAACTCATGTTCAAGACAGAAGGGCCTGACTCAGAC | 81 | 79 |  | TP53 | NM\_000546.2:1330 |
| TUBB | NM\_178014.2 | 1956-2055 | TTCTAAGTATGTCCATTTCCCATCTCAGCTTCAAGGGAGGTGTCAGCAGTATTATCTCCACTTTCAATCTCCCTCCAAGCTCTACTCTGGAGGAGTCTGT | 79 | 81 | HK | TUBB | NM\_178014.2:1955 |
| UCK1 | NM\_031432.3 | 233-332 | GGAGTTGCTGGGACAGAACGAGGTGGAACAGCGGCAGCGGAAGGTGGTCATCCTGAGCCAGGACAGGTTCTACAAGGTCCTGACGGCAGAGCAGAAGGCC | 92 | 92 |  | UCK1 | NM\_031432.3:232 |
| UCK2 | NM\_012474.3 | 731-830 | CAGTACATTACGTTCGTCAAGCCTGCCTTTGAGGAATTCTGCTTGCCAACAAAGAAGTATGCTGATGTGATCATCCCTAGAGGTGCAGATAATCTGGTGG | 79 | 83 |  | UCK2 | NM\_012474.3:730 |

**Supplementary Table S5**

Nanostring results. RNA counts per gene probe and sample.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Probe Name** | **JD-1** | **JD-10** | **JD-11** | **JD-12** | **JD-13** | **JD-14** | **JD-15** | **JD-16** | **JD-17** | **JD-18** | **JD-19** | **JD-2** | **JD-20** | **JD-21** | **JD-22** | **JD-23** | **JD-25** | **JD-26** |
| **ASXL1** | 130 | 137 | 178 | 212 | 193 | 373 | 178 | 289 | 335 | 170 | 148 | 212 | 185 | 117 | 436 | 306 | 325 | 252 |
| **BAZ1A** | 278 | 104 | 777 | 1170 | 943 | 1256 | 284 | 382 | 447 | 693 | 450 | 1183 | 859 | 354 | 565 | 572 | 1090 | 1459 |
| **BAZ1B** | 963 | 1201 | 1630 | 1455 | 1551 | 1562 | 999 | 983 | 1730 | 1066 | 1227 | 1570 | 1220 | 769 | 1272 | 1688 | 1825 | 1694 |
| **BCL2L10** | 12 | 7 | 14 | 9 | 23 | 17 | 9 | 12 | 6 | 7 | 8 | 10 | 18 | 15 | 34 | 23 | 13 | 7 |
| **CDA** | 865 | 1792 | 6306 | 1958 | 2176 | 1122 | 2782 | 86 | 414 | 926 | 193 | 2328 | 3742 | 2988 | 1256 | 597 | 1686 | 5357 |
| **CHRAC1** | 1325 | 1639 | 2822 | 1485 | 863 | 2358 | 1354 | 3075 | 1839 | 958 | 1930 | 1035 | 1820 | 1714 | 2077 | 2722 | 2203 | 2525 |
| **CREBBP** | 2088 | 4315 | 4418 | 1958 | 2419 | 3298 | 3974 | 2218 | 4551 | 1425 | 2036 | 2119 | 2489 | 2982 | 4172 | 3579 | 5271 | 6867 |
| **DNMT1** | 1751 | 1450 | 4264 | 1714 | 2172 | 5985 | 1601 | 1085 | 822 | 1718 | 2572 | 1839 | 2021 | 1674 | 2419 | 2929 | 1882 | 1528 |
| **DNMT3A** | 356 | 284 | 699 | 822 | 953 | 937 | 418 | 807 | 1771 | 1025 | 926 | 726 | 589 | 529 | 1654 | 763 | 1066 | 1379 |
| **ERCC2** | 83 | 34 | 66 | 101 | 105 | 148 | 78 | 37 | 50 | 81 | 140 | 75 | 102 | 79 | 140 | 123 | 126 | 75 |
| **FBXO11** | 1551 | 2224 | 2595 | 1583 | 1631 | 2309 | 2128 | 3120 | 5599 | 1088 | 1789 | 1396 | 1732 | 2557 | 3115 | 3794 | 3695 | 5124 |
| **FLYWCH1** | 20 | 26 | 24 | 48 | 51 | 49 | 33 | 25 | 70 | 25 | 42 | 22 | 47 | 20 | 69 | 88 | 57 | 43 |
| **HELLS** | 299 | 362 | 779 | 486 | 1005 | 791 | 301 | 457 | 305 | 451 | 733 | 703 | 715 | 492 | 1078 | 930 | 166 | 606 |
| **IDH1** | 870 | 299 | 1099 | 2261 | 1450 | 1646 | 476 | 531 | 873 | 1307 | 1891 | 499 | 1816 | 398 | 584 | 736 | 3794 | 903 |
| **IDH2** | 2701 | 2453 | 2977 | 2354 | 3891 | 3873 | 2634 | 1767 | 2558 | 2444 | 2820 | 2225 | 2411 | 2441 | 3752 | 4813 | 2365 | 2982 |
| **MACROH2A1** | 16116 | 16012 | 14401 | 8883 | 14624 | 11667 | 16548 | 7609 | 31178 | 14009 | 23459 | 10167 | 17591 | 23609 | 22405 | 14831 | 28649 | 21156 |
| **MACROH2A2** | 24 | 27 | 121 | 31 | 148 | 327 | 63 | 9 | 22 | 54 | 149 | 145 | 203 | 128 | 246 | 90 | 174 | 39 |
| **MALSU1** | 448 | 513 | 676 | 564 | 468 | 764 | 538 | 465 | 537 | 341 | 421 | 450 | 842 | 330 | 749 | 798 | 707 | 761 |
| **MRPL4** | 489 | 406 | 717 | 665 | 454 | 2027 | 333 | 685 | 329 | 485 | 936 | 419 | 607 | 455 | 792 | 1000 | 743 | 472 |
| **MRPL52** | 561 | 429 | 820 | 832 | 836 | 1892 | 512 | 565 | 605 | 521 | 864 | 584 | 990 | 685 | 742 | 899 | 1276 | 834 |
| **MRPS26** | 307 | 289 | 532 | 746 | 319 | 959 | 312 | 314 | 210 | 460 | 889 | 372 | 640 | 339 | 626 | 925 | 614 | 345 |
| **MRTO4** | 445 | 158 | 382 | 721 | 616 | 1795 | 313 | 316 | 217 | 593 | 1057 | 597 | 786 | 531 | 808 | 964 | 416 | 284 |
| **NAA10** | 8 | 12 | 30 | 9 | 11 | 8 | 9 | 15 | 22 | 7 | 11 | 7 | 7 | 7 | 6 | 16 | 7 | 7 |
| **NAA15** | 197 | 299 | 234 | 251 | 228 | 368 | 229 | 410 | 603 | 219 | 252 | 243 | 259 | 231 | 517 | 504 | 387 | 211 |
| **NSUN3** | 636 | 873 | 682 | 486 | 1235 | 1060 | 799 | 617 | 3120 | 752 | 1452 | 1613 | 2025 | 534 | 5313 | 2646 | 1725 | 4616 |
| **POLE3** | 2535 | 2908 | 4162 | 2231 | 1442 | 6357 | 2641 | 3376 | 4439 | 2105 | 2820 | 2133 | 4307 | 3025 | 3760 | 4219 | 3016 | 2702 |
| **POLR1A** | 18 | 19 | 41 | 16 | 18 | 58 | 25 | 14 | 50 | 15 | 19 | 23 | 35 | 43 | 85 | 48 | 18 | 37 |
| **POLR1B** | 187 | 189 | 307 | 323 | 230 | 432 | 188 | 268 | 202 | 266 | 347 | 214 | 349 | 109 | 469 | 493 | 212 | 194 |
| **POLR1C** | 124 | 71 | 103 | 168 | 129 | 179 | 84 | 211 | 118 | 75 | 88 | 95 | 150 | 88 | 227 | 306 | 73 | 91 |
| **POLR1E** | 79 | 41 | 61 | 114 | 107 | 181 | 61 | 33 | 171 | 105 | 180 | 101 | 172 | 69 | 198 | 144 | 62 | 71 |
| **POLR3D** | 211 | 144 | 322 | 309 | 194 | 627 | 180 | 141 | 447 | 307 | 749 | 301 | 438 | 242 | 680 | 583 | 447 | 377 |
| **POLR3H** | 111 | 51 | 143 | 225 | 220 | 538 | 104 | 84 | 42 | 115 | 180 | 217 | 277 | 75 | 171 | 228 | 166 | 159 |
| **PWWP2B** | 34 | 41 | 90 | 56 | 94 | 53 | 47 | 100 | 202 | 80 | 94 | 41 | 70 | 94 | 64 | 116 | 161 | 157 |
| **RING1** | 595 | 339 | 1081 | 1019 | 871 | 2620 | 596 | 700 | 375 | 668 | 1324 | 936 | 821 | 756 | 1528 | 1744 | 1614 | 1269 |
| **RIOX2** | 116 | 36 | 113 | 483 | 263 | 451 | 93 | 89 | 121 | 241 | 952 | 150 | 253 | 133 | 429 | 425 | 611 | 244 |
| **RRM1** | 506 | 361 | 622 | 686 | 1006 | 1302 | 445 | 280 | 340 | 537 | 491 | 899 | 693 | 657 | 588 | 970 | 189 | 289 |
| **RRM2** | 2448 | 2681 | 7562 | 2951 | 7552 | 8225 | 3435 | 978 | 353 | 2736 | 810 | 4349 | 3680 | 7047 | 1501 | 6163 | 145 | 1659 |
| **RRP1** | 122 | 126 | 225 | 292 | 236 | 335 | 156 | 273 | 81 | 187 | 235 | 200 | 253 | 172 | 323 | 299 | 75 | 121 |
| **RRP9** | 37 | 24 | 26 | 84 | 84 | 114 | 31 | 26 | 18 | 54 | 85 | 75 | 59 | 50 | 78 | 70 | 59 | 67 |
| **SLC28A3** | 30 | 12 | 677 | 24 | 158 | 64 | 23 | 8 | 6 | 147 | 8 | 44 | 45 | 49 | 91 | 21 | 10 | 47 |
| **SLC29A1** | 321 | 277 | 498 | 346 | 665 | 1195 | 340 | 38 | 90 | 390 | 303 | 606 | 536 | 249 | 374 | 650 | 185 | 220 |
| **SMARCA5** | 2689 | 2314 | 4522 | 3497 | 3128 | 8758 | 3628 | 2218 | 4426 | 2610 | 4908 | 3259 | 4310 | 3806 | 6763 | 7133 | 4754 | 5603 |
| **TET2** | 2592 | 2776 | 3203 | 2545 | 2459 | 2650 | 4230 | 1916 | 5581 | 2192 | 3225 | 2213 | 3613 | 3403 | 6086 | 4502 | 11051 | 12569 |
| **TP53** | 740 | 328 | 197 | 1894 | 1192 | 590 | 627 | 350 | 316 | 1465 | 2230 | 587 | 1280 | 822 | 1244 | 1280 | 1674 | 1123 |
| **UCK1** | 240 | 417 | 636 | 327 | 326 | 514 | 287 | 474 | 531 | 170 | 389 | 251 | 465 | 325 | 503 | 460 | 649 | 698 |
| **UCK2** | 520 | 524 | 683 | 778 | 551 | 974 | 452 | 1107 | 563 | 618 | 795 | 587 | 901 | 514 | 1049 | 1198 | 231 | 293 |
| **EP300** | 431 | 783 | 834 | 352 | 597 | 698 | 819 | 506 | 697 | 204 | 259 | 442 | 358 | 747 | 683 | 737 | 858 | 998 |
| **GAPDH** | 79761 | 112210 | 182257 | 53792 | 43129 | 75900 | 101885 | 89411 | 165074 | 61737 | 82047 | 55833 | 91774 | 173593 | 111888 | 90737 | 107144 | 65052 |
| **GUSB** | 3363 | 4594 | 7147 | 3170 | 2514 | 3271 | 4059 | 3913 | 6232 | 3066 | 3429 | 2374 | 3426 | 3232 | 3905 | 2679 | 5560 | 4825 |
| **TUBB** | 3543 | 2594 | 1667 | 3758 | 4739 | 3643 | 2935 | 3044 | 1912 | 3886 | 3474 | 5018 | 3477 | 3686 | 3051 | 4448 | 2143 | 2469 |

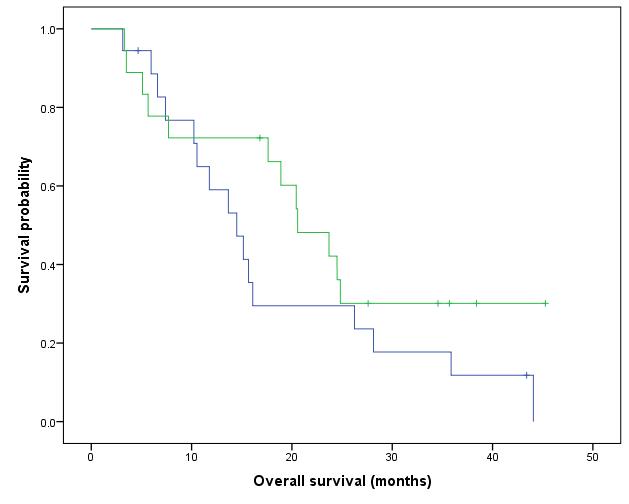
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Probe Name** | **JD-27** | **JD-29** | **JD-30** | **JD-32** | **JD-34** | **JD-35** | **JD-36** | **JD-37** | **JD-38** | **JD-39** | **JD-4** | **JD-40** | **JD-41** | **JD-42** | **JD-5** | **JD-6** | **JD-7** | **JD-8** |
| **ASXL1** | 179 | 272 | 778 | 230 | 137 | 259 | 131 | 392 | 197 | 490 | 229 | 320 | 508 | 284 | 236 | 156 | 181 | 364 |
| **BAZ1A** | 203 | 515 | 1133 | 206 | 1123 | 250 | 344 | 624 | 361 | 1060 | 1788 | 1212 | 4672 | 1253 | 889 | 722 | 806 | 727 |
| **BAZ1B** | 1253 | 1927 | 2986 | 1118 | 1005 | 1655 | 1231 | 2221 | 732 | 2428 | 1454 | 1635 | 2157 | 1631 | 1053 | 1198 | 1208 | 771 |
| **BCL2L10** | 5 | 6 | 14 | 15 | 10 | 4 | 8 | 5 | 20 | 31 | 13 | 33 | 27 | 14 | 5 | 10 | 12 | 49 |
| **CDA** | 1149 | 2240 | 1588 | 4998 | 725 | 801 | 2047 | 1507 | 1250 | 6134 | 607 | 1447 | 13215 | 2951 | 739 | 955 | 3872 | 133 |
| **CHRAC1** | 1398 | 1493 | 4526 | 1505 | 1301 | 1887 | 1829 | 3027 | 1901 | 4112 | 1275 | 2894 | 5724 | 1666 | 1328 | 737 | 1178 | 2185 |
| **CREBBP** | 2240 | 12449 | 10408 | 5616 | 997 | 5703 | 3539 | 8528 | 1783 | 11980 | 1397 | 5808 | 23549 | 2443 | 1471 | 1892 | 2665 | 3290 |
| **DNMT1** | 1942 | 1695 | 1773 | 794 | 1839 | 1011 | 1895 | 1913 | 1568 | 2062 | 2394 | 2023 | 1637 | 1877 | 1719 | 1911 | 1703 | 1959 |
| **DNMT3A** | 378 | 787 | 1023 | 185 | 374 | 590 | 516 | 1514 | 1378 | 2034 | 754 | 951 | 2095 | 897 | 1140 | 361 | 841 | 3463 |
| **ERCC2** | 42 | 61 | 57 | 118 | 85 | 152 | 75 | 189 | 62 | 131 | 115 | 120 | 154 | 109 | 100 | 66 | 103 | 179 |
| **FBXO11** | 1418 | 4550 | 7779 | 4601 | 1067 | 4155 | 2184 | 6138 | 2391 | 5600 | 1177 | 4246 | 7526 | 1655 | 1191 | 972 | 1291 | 3418 |
| **FLYWCH1** | 9 | 6 | 138 | 21 | 9 | 63 | 23 | 112 | 33 | 122 | 28 | 40 | 77 | 26 | 60 | 18 | 23 | 34 |
| **HELLS** | 611 | 686 | 599 | 636 | 351 | 474 | 452 | 554 | 452 | 516 | 654 | 333 | 393 | 811 | 596 | 609 | 704 | 597 |
| **IDH1** | 329 | 535 | 374 | 397 | 902 | 353 | 313 | 799 | 585 | 694 | 1545 | 3175 | 1776 | 1193 | 1763 | 796 | 378 | 1123 |
| **IDH2** | 4125 | 5629 | 3056 | 2902 | 3635 | 3685 | 3657 | 3903 | 2477 | 3451 | 3681 | 2989 | 2577 | 2903 | 2359 | 3726 | 2697 | 4007 |
| **MACROH2A1** | 9483 | 16878 | 16951 | 17550 | 15533 | 15766 | 14917 | 19312 | 14704 | 21955 | 12048 | 32504 | 40616 | 11987 | 20702 | 11485 | 13344 | 28142 |
| **MACROH2A2** | 12 | 252 | 121 | 33 | 100 | 22 | 88 | 70 | 37 | 108 | 275 | 100 | 89 | 23 | 95 | 25 | 178 | 474 |
| **MALSU1** | 426 | 686 | 1557 | 572 | 676 | 461 | 453 | 1051 | 220 | 1025 | 658 | 631 | 832 | 513 | 440 | 595 | 658 | 438 |
| **MRPL4** | 424 | 494 | 934 | 448 | 880 | 519 | 462 | 701 | 667 | 908 | 823 | 804 | 647 | 497 | 579 | 573 | 615 | 1152 |
| **MRPL52** | 427 | 1695 | 692 | 597 | 1062 | 649 | 485 | 925 | 429 | 934 | 796 | 1254 | 847 | 599 | 766 | 500 | 616 | 1107 |
| **MRPS26** | 271 | 393 | 767 | 309 | 488 | 246 | 302 | 575 | 452 | 619 | 748 | 523 | 539 | 598 | 576 | 381 | 436 | 949 |
| **MRTO4** | 419 | 444 | 782 | 276 | 1050 | 170 | 395 | 308 | 701 | 399 | 1029 | 373 | 300 | 499 | 608 | 697 | 735 | 1297 |
| **NAA10** | 7 | 6 | 24 | 5 | 8 | 27 | 6 | 5 | 9 | 6 | 14 | 6 | 23 | 5 | 8 | 7 | 10 | 23 |
| **NAA15** | 206 | 272 | 992 | 145 | 236 | 237 | 260 | 561 | 198 | 535 | 237 | 335 | 173 | 206 | 363 | 173 | 218 | 881 |
| **NSUN3** | 907 | 18351 | 3936 | 14097 | 502 | 8883 | 2970 | 20342 | 586 | 2787 | 836 | 8607 | 3744 | 2706 | 899 | 1803 | 1380 | 1297 |
| **POLE3** | 2525 | 2603 | 7550 | 2532 | 2489 | 3820 | 2781 | 3742 | 3020 | 3986 | 3182 | 2065 | 3366 | 2482 | 3041 | 2014 | 2754 | 3662 |
| **POLR1A** | 18 | 131 | 20 | 42 | 20 | 58 | 39 | 91 | 25 | 56 | 17 | 58 | 50 | 14 | 17 | 32 | 18 | 31 |
| **POLR1B** | 135 | 151 | 400 | 164 | 212 | 148 | 163 | 175 | 241 | 357 | 368 | 220 | 254 | 280 | 393 | 207 | 219 | 589 |
| **POLR1C** | 96 | 6 | 309 | 127 | 117 | 98 | 69 | 133 | 208 | 136 | 160 | 70 | 58 | 99 | 141 | 99 | 68 | 371 |
| **POLR1E** | 92 | 6 | 552 | 27 | 145 | 22 | 69 | 98 | 53 | 230 | 179 | 50 | 143 | 76 | 211 | 99 | 113 | 521 |
| **POLR3D** | 250 | 666 | 874 | 145 | 203 | 434 | 226 | 855 | 242 | 873 | 466 | 596 | 451 | 323 | 592 | 238 | 442 | 1134 |
| **POLR3H** | 239 | 222 | 193 | 94 | 225 | 94 | 170 | 147 | 226 | 169 | 317 | 135 | 173 | 194 | 272 | 187 | 181 | 279 |
| **PWWP2B** | 37 | 182 | 243 | 70 | 21 | 116 | 49 | 161 | 96 | 127 | 70 | 188 | 162 | 90 | 148 | 25 | 43 | 202 |
| **RING1** | 841 | 1120 | 755 | 712 | 800 | 818 | 789 | 1696 | 1688 | 1703 | 940 | 1447 | 2480 | 1305 | 1021 | 673 | 1000 | 2101 |
| **RIOX2** | 130 | 182 | 402 | 97 | 198 | 85 | 153 | 350 | 105 | 528 | 292 | 293 | 574 | 273 | 402 | 193 | 197 | 699 |
| **RRM1** | 691 | 888 | 942 | 663 | 971 | 577 | 666 | 469 | 295 | 481 | 952 | 313 | 181 | 619 | 555 | 921 | 671 | 766 |
| **RRM2** | 5060 | 5518 | 3256 | 2908 | 5901 | 5072 | 3935 | 764 | 1231 | 847 | 4370 | 1727 | 682 | 5005 | 2741 | 6456 | 3708 | 2433 |
| **RRP1** | 117 | 151 | 408 | 151 | 252 | 116 | 159 | 329 | 335 | 282 | 293 | 323 | 223 | 263 | 358 | 216 | 175 | 455 |
| **RRP9** | 42 | 111 | 96 | 21 | 96 | 22 | 41 | 49 | 49 | 87 | 108 | 80 | 108 | 58 | 100 | 83 | 80 | 173 |
| **SLC28A3** | 9 | 61 | 67 | 73 | 195 | 22 | 14 | 5 | 18 | 19 | 200 | 33 | 35 | 23 | 62 | 37 | 94 | 37 |
| **SLC29A1** | 640 | 777 | 52 | 582 | 439 | 559 | 593 | 266 | 375 | 174 | 822 | 243 | 185 | 432 | 351 | 592 | 687 | 280 |
| **SMARCA5** | 3382 | 6800 | 9410 | 2254 | 2795 | 3269 | 3665 | 6965 | 3160 | 10015 | 4138 | 5843 | 12714 | 4153 | 2530 | 4372 | 4255 | 4920 |
| **TET2** | 1682 | 20853 | 8435 | 11126 | 2346 | 9885 | 4683 | 13223 | 1931 | 11204 | 2186 | 13209 | 27870 | 2255 | 1692 | 1220 | 3026 | 5398 |
| **TP53** | 821 | 1069 | 573 | 512 | 1277 | 689 | 629 | 1254 | 976 | 1234 | 1930 | 1850 | 1171 | 1305 | 1824 | 1452 | 115 | 3733 |
| **UCK1** | 275 | 565 | 1215 | 491 | 220 | 590 | 295 | 1093 | 329 | 887 | 253 | 428 | 1044 | 354 | 377 | 213 | 351 | 293 |
| **UCK2** | 327 | 353 | 215 | 248 | 822 | 286 | 523 | 266 | 646 | 249 | 1008 | 518 | 254 | 806 | 686 | 585 | 547 | 1749 |
| **EP300** | 414 | 1402 | 1773 | 1100 | 311 | 1637 | 644 | 1605 | 640 | 1935 | 249 | 1092 | 3112 | 529 | 355 | 411 | 499 | 460 |
| **GAPDH** | 53505 | 71023 | 83287 | 117764 | 80105 | 56395 | 73852 | 71587 | 78145 | 79776 | 66200 | 113316 | 134796 | 64820 | 46158 | 44250 | 84772 | 112170 |
| **GUSB** | 3457 | 3773 | 5377 | 4434 | 3277 | 3055 | 2822 | 4583 | 3461 | 4136 | 2416 | 3996 | 4503 | 3226 | 2901 | 2680 | 3125 | 1856 |
| **TUBB** | 3447 | 3158 | 2216 | 2687 | 3636 | 3900 | 4221 | 2600 | 3443 | 2881 | 4931 | 2982 | 2646 | 3693 | 4107 | 4446 | 3813 | 6420 |

**Supplementary data S1**

Results of the overall survival analysis. Patients were divided into low (below median, blue) and high (above median, green) expression and the survival probability calculated. Statistical analysis was performed using the Log Rank (Mantel-Cox) test.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Medium and Median time of survival** | | | | | | | | | |
| ASXL1 recodified by median | Mediuma | | | | Median | | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 18.235 | 3.128 | 12.104 | 24.365 | 14.500 | 2.325 | 9.943 | 19.057 |
| >Median | 24.087 | 3.731 | 16.775 | 31.400 | 20.567 | 3.214 | 14.268 | 26.865 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.180

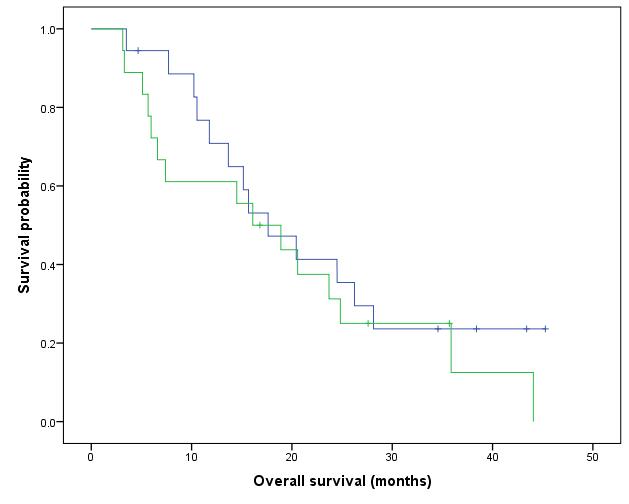


≤ Median

> Median

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Medium and Median time of survival** | | | | | | | | |
| BAZ1A recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 22.786 | 3.377 | 16.167 | 29.406 | 17.633 | 3.602 | 10.574 | 24.693 |
| >Median | 19.256 | 3.480 | 12.435 | 26.078 | 16.100 | 4.392 | 7.491 | 24.709 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.433

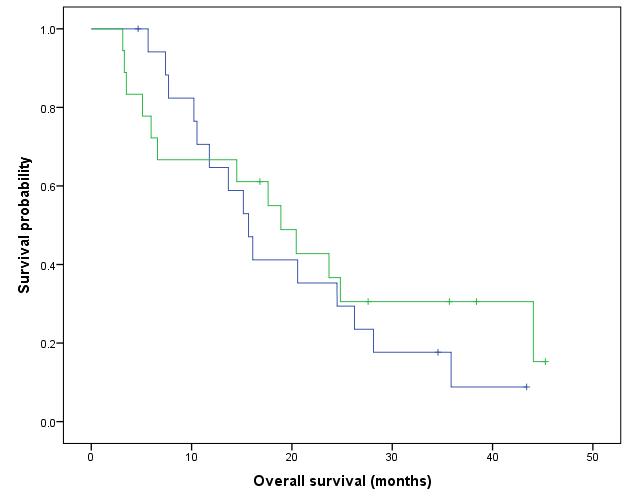


≤ Median

> Median

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Medium and Median time of survival** | | | | | | | | |
| BAZ1B recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 19.543 | 2.764 | 14.126 | 24.961 | 15.667 | 1.669 | 12.395 | 18.938 |
| >Median | 22.434 | 3.895 | 14.800 | 30.068 | 18.900 | 2.751 | 13.507 | 24.293 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.513

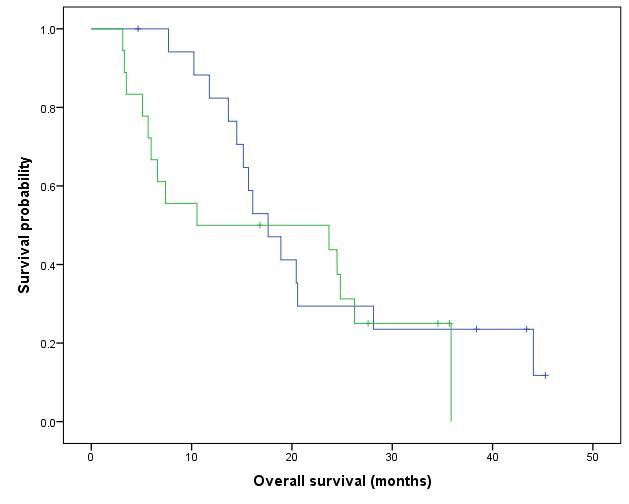


≤ Median

> Median

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Medium and Median time of survival** | | | | | | | | |
| BCL2L10 recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 22.890 | 3.118 | 16.778 | 29.002 | 17.633 | 2.218 | 13.286 | 21.981 |
| >Median | 18.015 | 3.206 | 11.731 | 24.300 | 10.533 | 16.272 | .000 | 42.426 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.479

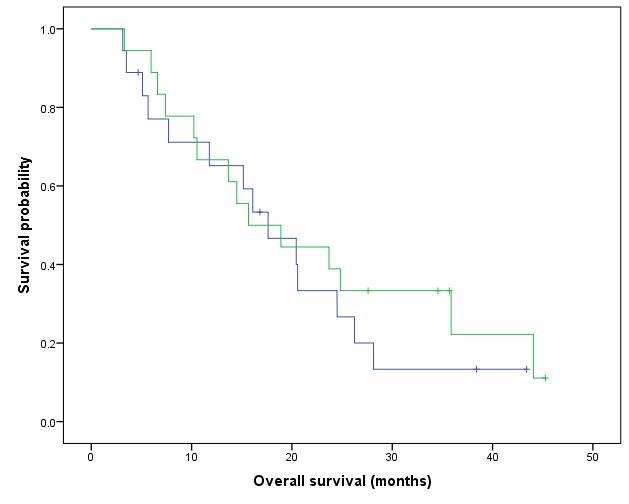


≤ Median

> Median

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Medium and Median time of survival** | | | | | | | | |
| CDA recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 18.966 | 3.043 | 13.003 | 24.930 | 17.633 | 3.358 | 11.051 | 24.215 |
| >Median | 22.539 | 3.537 | 15.606 | 29.472 | 15.667 | 4.667 | 6.520 | 24.814 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.521

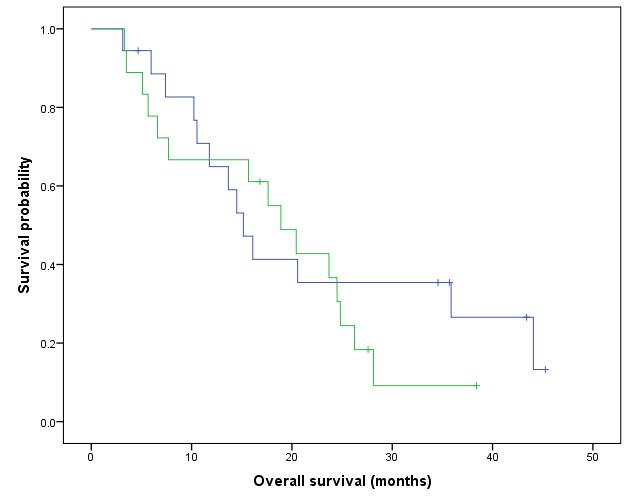


≤ Median

> Median

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Medium and Median time of survival** | | | | | | | | |
| CHRAC1 recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 22.646 | 3.737 | 15.322 | 29.970 | 15.167 | 1.664 | 11.905 | 18.428 |
| >Median | 18.287 | 2.575 | 13.241 | 23.334 | 18.900 | 2.751 | 13.507 | 24.293 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.477

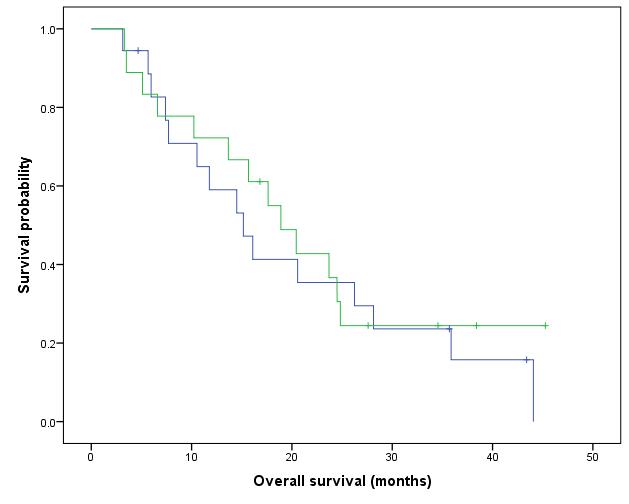


≤ Median

> Median

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Medium and Median time of survival** | | | | | | | | |
| CREBBP recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 19.952 | 3.454 | 13.183 | 26.722 | 15.167 | 2.963 | 9.358 | 20.975 |
| >Median | 22.236 | 3.535 | 15.307 | 29.164 | 18.900 | 2.751 | 13.507 | 24.293 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.608

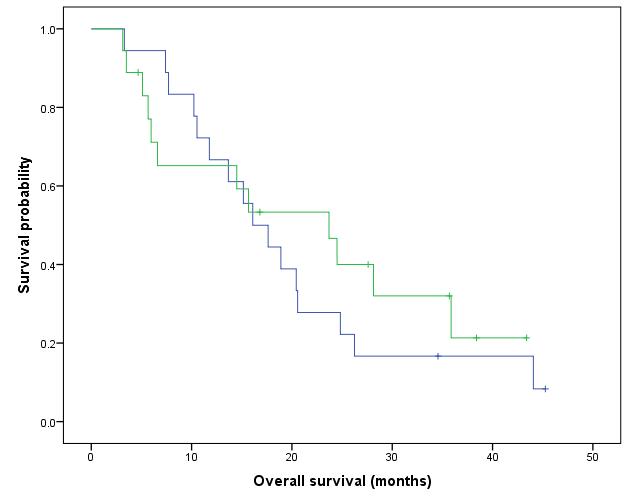


≤ Median

> Median

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Medium and Median time of survival** | | | | | | | | |
| DNMT1 recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 19.915 | 2.949 | 14.136 | 25.694 | 16.100 | 2.616 | 10.972 | 21.228 |
| >Median | 22.087 | 3.732 | 14.773 | 29.402 | 23.700 | 6.376 | 11.203 | 36.197 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.574

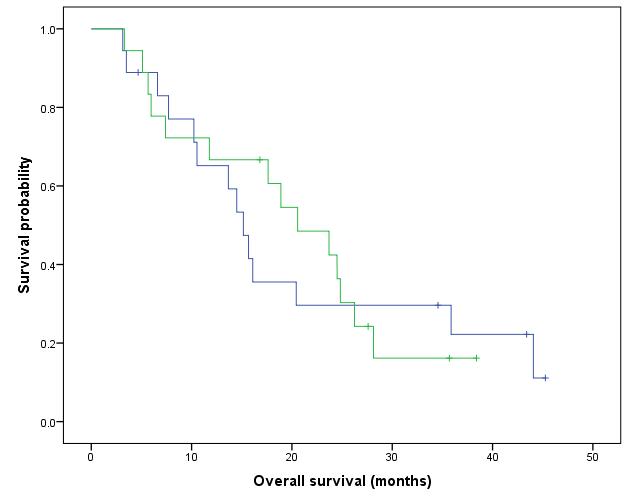


≤ Median

> Median

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Medium and Median time of survival** | | | | | | | | |
| DNMT3A recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 20.690 | 3.622 | 13.592 | 27.789 | 15.167 | 1.363 | 12.496 | 17.837 |
| >Median | 20.134 | 2.731 | 14.781 | 25.487 | 20.567 | 4.024 | 12.680 | 28.454 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.909

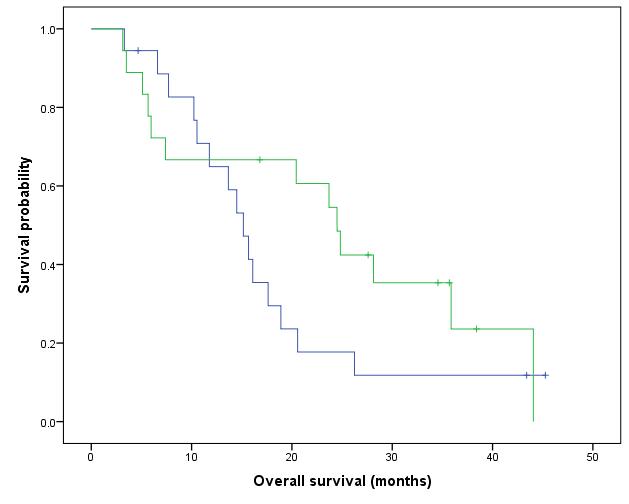


≤ Median

> Median

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Medium and Median time of survival** | | | | | | | | |
| ERCC2 recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 17.644 | 2.763 | 12.229 | 23.059 | 15.167 | 1.368 | 12.486 | 17.847 |
| >Median | 23.976 | 3.842 | 16.446 | 31.506 | 24.500 | 2.918 | 18.780 | 30.220 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.212

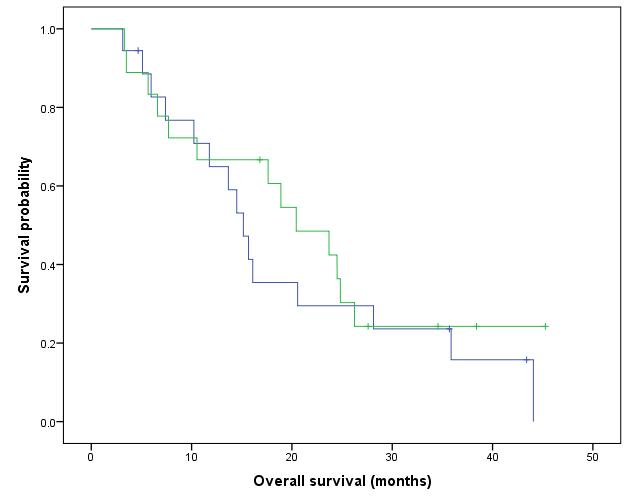


≤ Median

> Median

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Medium and Median time of survival** | | | | | | | | |
| FBXO11 recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 19.630 | 3.393 | 12.978 | 26.281 | 15.167 | 1.368 | 12.486 | 17.847 |
| >Median | 22.515 | 3.558 | 15.542 | 29.488 | 20.433 | 4.024 | 12.546 | 28.320 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.464

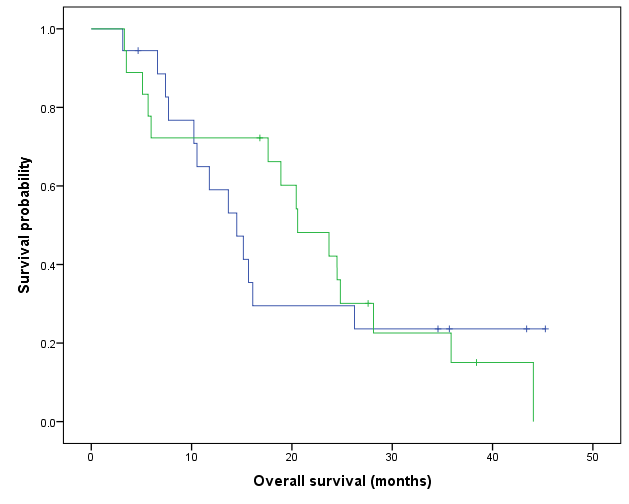


≤ Median

> Median

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Medium and Median time of survival** | | | | | | | | |
| FLYWCH1 recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 20.045 | 3.597 | 12.995 | 27.095 | 14.500 | 2.325 | 9.943 | 19.057 |
| >Median | 21.815 | 3.326 | 15.295 | 28.334 | 20.567 | 3.214 | 14.268 | 26.865 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.824

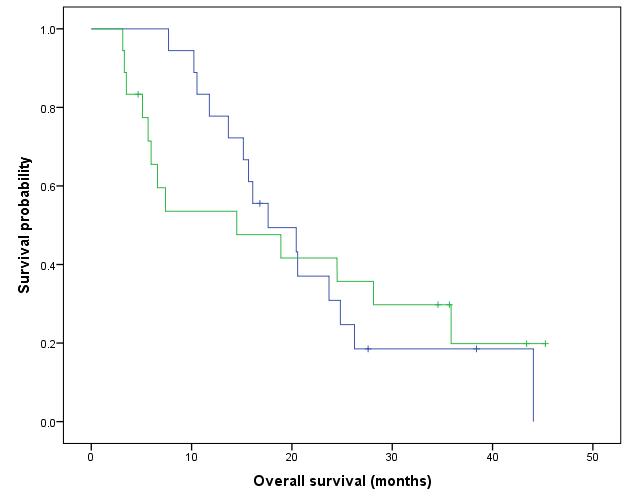


≤ Median

> Median

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Medium and Median time of survival** | | | | | | | | |
| HELLS recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 21.997 | 2.918 | 16.277 | 27.717 | 17.633 | 4.186 | 9.428 | 25.839 |
| >Median | 20.042 | 3.953 | 12.294 | 27.790 | 14.500 | 8.342 | .000 | 30.850 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.976

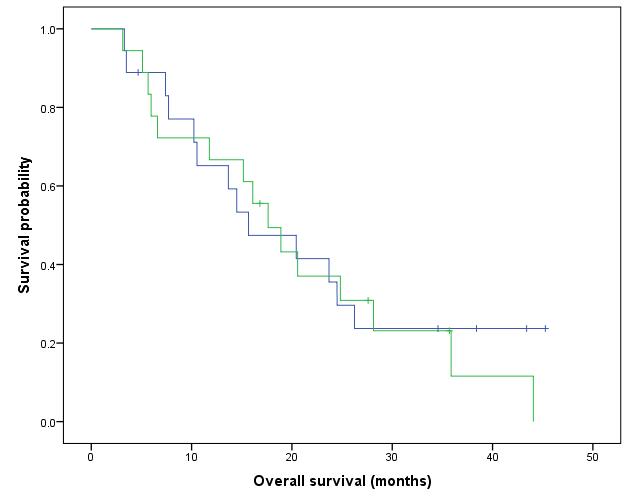


≤ Median

> Median

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Medium and Median time of survival** | | | | | | | | |
| IDH1 recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 21.452 | 3.580 | 14.436 | 28.468 | 15.667 | 4.610 | 6.631 | 24.703 |
| >Median | 20.341 | 3.284 | 13.905 | 26.777 | 17.633 | 2.705 | 12.331 | 22.935 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.760

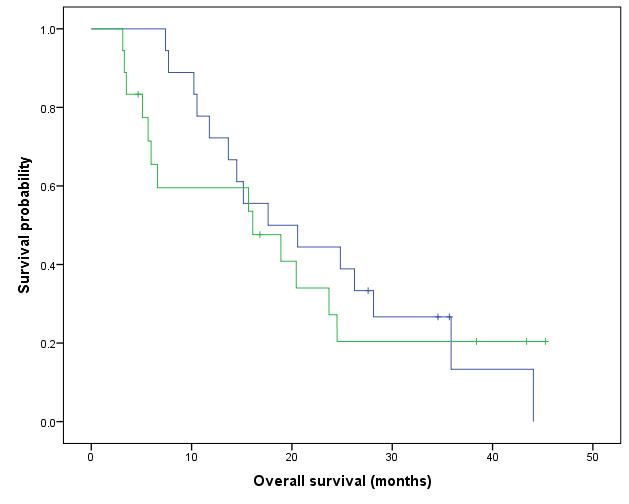


≤ Median

> Median

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Medium and Median time of survival** | | | | | | | | |
| IDH2 recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 22.546 | 3.055 | 16.559 | 28.533 | 17.633 | 5.728 | 6.407 | 28.859 |
| >Median | 19.024 | 3.733 | 11.708 | 26.340 | 16.100 | 7.963 | .493 | 31.707 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.624

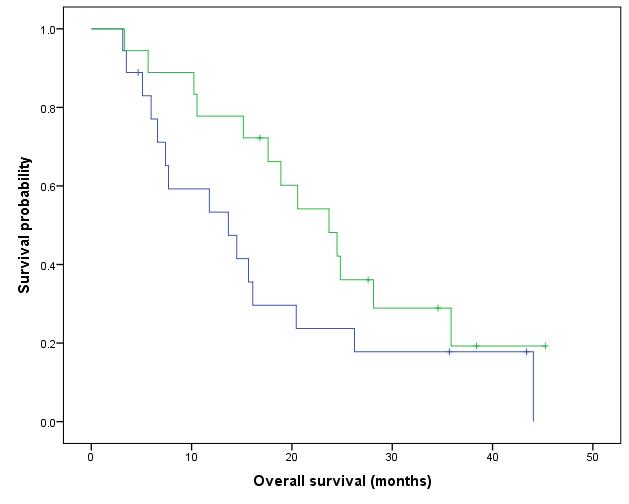


≤ Median

> Median

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Medium and Median time of survival** | | | | | | | | | |
| MACROH2A1 recodified by median | Mediuma | | | | Median | | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 17.159 | 3.479 | 10.339 | 23.978 | 13.667 | 4.633 | 4.586 | 22.747 |
| >Median | 24.530 | 3.217 | 18.225 | 30.836 | 23.700 | 3.749 | 16.351 | 31.049 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.120

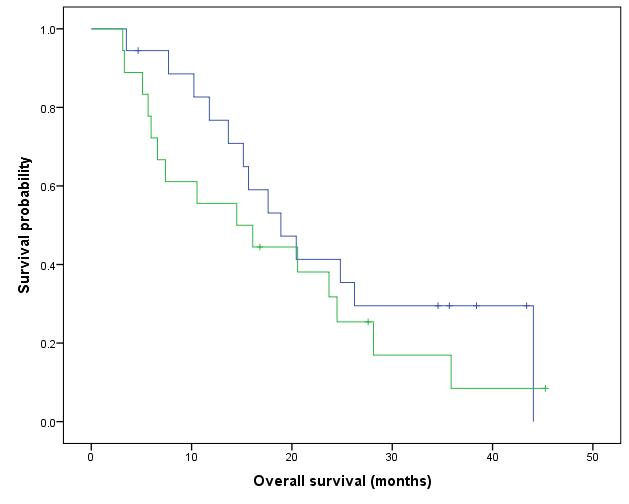


≤ Median

> Median

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Medium and Median time of survival** | | | | | | | | |
| MACROH2A2 recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 23.957 | 3.544 | 17.010 | 30.904 | 18.900 | 3.260 | 12.511 | 25.289 |
| >Median | 17.966 | 3.169 | 11.756 | 24.177 | 14.500 | 5.904 | 2.927 | 26.073 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.330

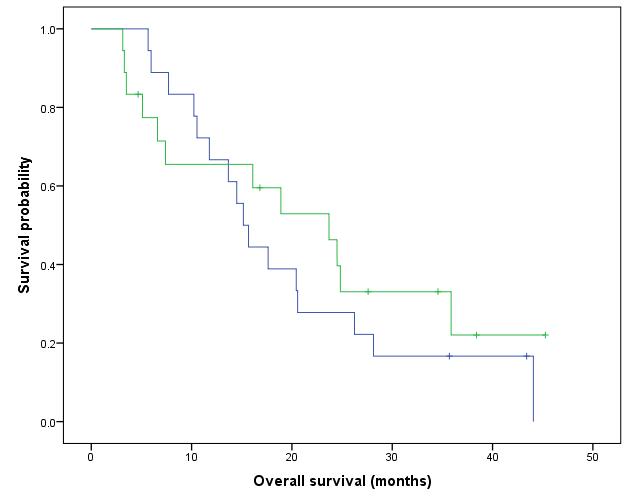


≤ Median

> Median

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| **Medium and Median time of survival** | | | | | | | | |
| MALSU1 recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 19.781 | 3.018 | 13.866 | 25.697 | 15.167 | 1.237 | 12.741 | 17.592 |
| >Median | 22.660 | 3.878 | 15.059 | 30.261 | 23.700 | 5.238 | 13.433 | 33.967 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.441

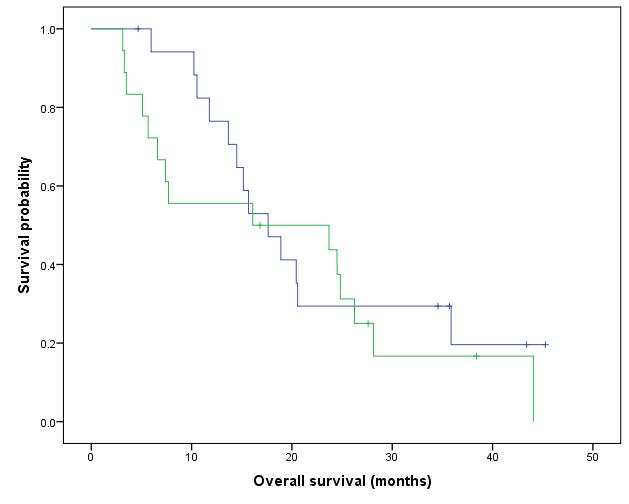


≤ Median

> Median

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| **Medium and Median time of survival** | | | | | | | | |
| MRPL4 recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 22.688 | 3.254 | 16.311 | 29.066 | 17.633 | 2.561 | 12.614 | 22.653 |
| >Median | 19.143 | 3.583 | 12.121 | 26.165 | 16.100 | 15.972 | .000 | 47.406 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.513

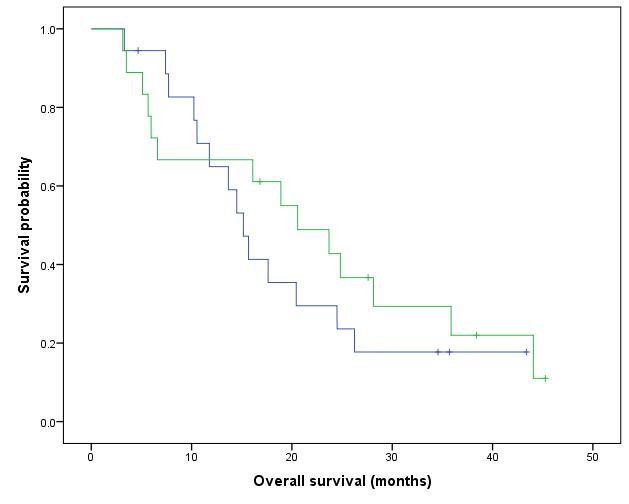


≤ Median

> Median

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| **Medium and Median time of survival** | | | | | | | | |
| MRPL52 recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 19.405 | 3.024 | 13.478 | 25.331 | 15.167 | 1.368 | 12.486 | 17.847 |
| >Median | 22.457 | 3.651 | 15.300 | 29.614 | 20.567 | 4.717 | 11.322 | 29.812 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.459

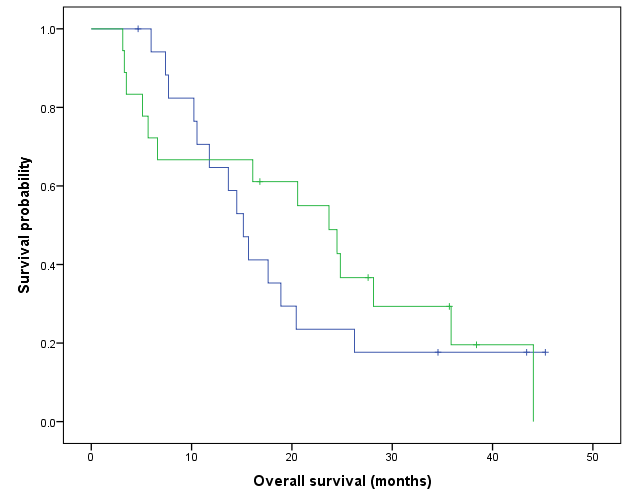


≤ Median

> Median

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| **Medium and Median time of survival** | | | | | | | | |
| MRPS26 recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 19.506 | 3.129 | 13.373 | 25.638 | 15.167 | 1.372 | 12.478 | 17.856 |
| >Median | 22.319 | 3.725 | 15.017 | 29.620 | 23.700 | 3.865 | 16.124 | 31.276 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.601

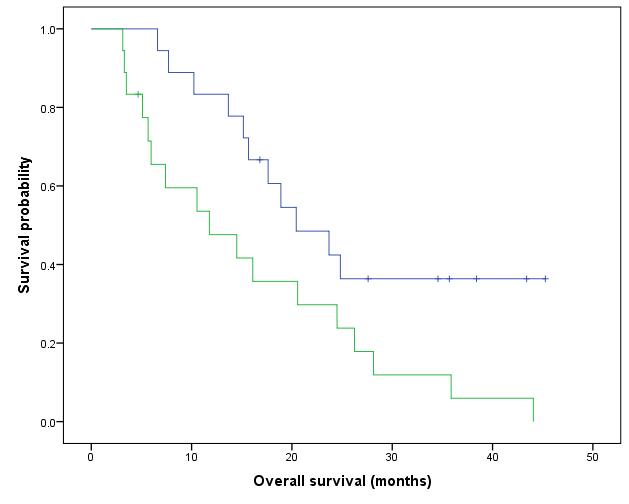


≤ Median

> Median

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Medium and Median time of survival** | | | | | | | | | |
| MRTO4 recodified by median | Mediuma | | | | Median | | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 26.690 | 3.554 | 19.725 | 33.655 | 20.433 | 4.024 | 12.546 | 28.320 |
| >Median | 15.814 | 3.001 | 9.931 | 21.697 | 11.767 | 4.815 | 2.329 | 21.205 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.024

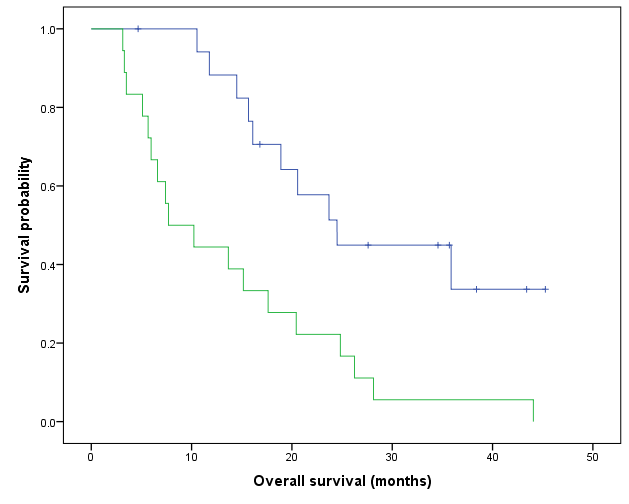


≤ Median

> Median

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| **Medium and Median time of survival** | | | | | | | | |
| NAA10 recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 28.937 | 3.363 | 22.346 | 35.528 | 24.500 | 3.807 | 17.039 | 31.961 |
| >Median | 13.820 | 2.641 | 8.644 | 18.997 | 7.700 | 3.005 | 1.810 | 13.590 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.002

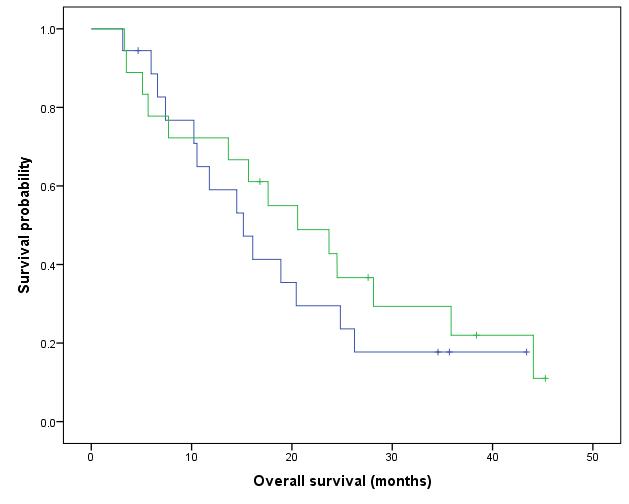


≤ Median

> Median

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| **Medium and Median time of survival** | | | | | | | | |
| NAA15 recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 18.996 | 3.123 | 12.875 | 25.117 | 15.167 | 2.963 | 9.358 | 20.975 |
| >Median | 22.833 | 3.558 | 15.859 | 29.808 | 20.567 | 5.962 | 8.882 | 32.251 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.422

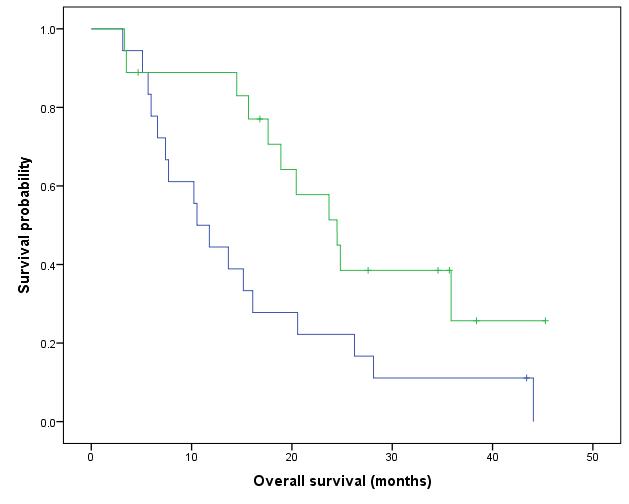


≤ Median

> Median

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| **Medium and Median time of survival** | | | | | | | | |
| NSUN3 recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 15.672 | 2.952 | 9.887 | 21.457 | 10.533 | 1.626 | 7.346 | 13.721 |
| >Median | 26.740 | 3.443 | 19.992 | 33.488 | 24.500 | 3.943 | 16.773 | 32.227 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.024

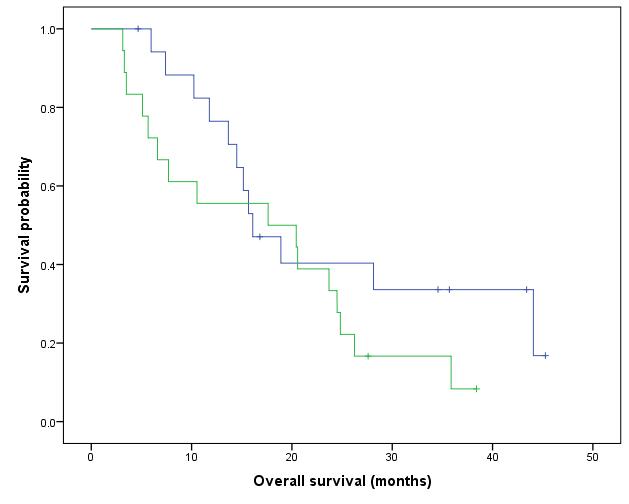


≤ Median

> Median

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| **Medium and Median time of survival** | | | | | | | | |
| POLE3 recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 24.674 | 3.695 | 17.431 | 31.917 | 16.100 | 2.445 | 11.309 | 20.891 |
| >Median | 17.491 | 2.811 | 11.981 | 23.001 | 17.633 | 10.501 | .000 | 38.214 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.194

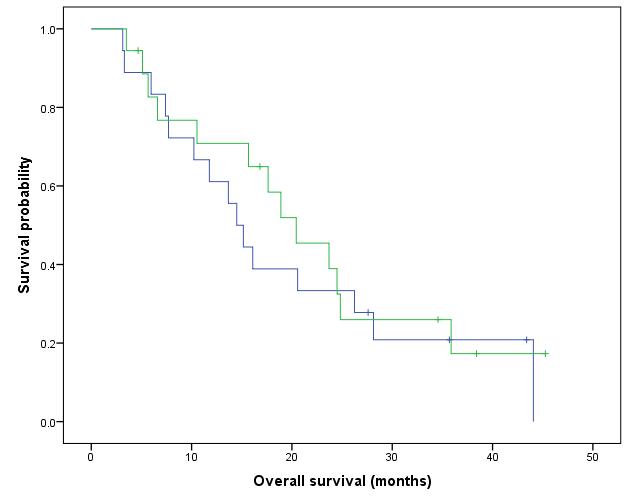


≤ Median

> Median

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| **Medium and Median time of survival** | | | | | | | | |
| POLR1A recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 19.786 | 3.496 | 12.935 | 26.637 | 14.500 | 1.591 | 11.382 | 17.618 |
| >Median | 22.150 | 3.412 | 15.462 | 28.838 | 20.433 | 3.865 | 12.859 | 28.008 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.585

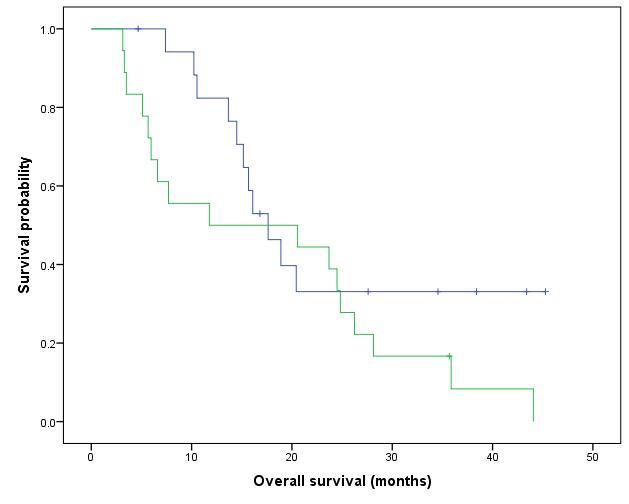


≤ Median

> Median

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| **Medium and Median time of survival** | | | | | | | | |
| POLR1B recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 24.822 | 3.654 | 17.661 | 31.983 | 17.633 | 2.075 | 13.566 | 21.700 |
| >Median | 17.811 | 3.243 | 11.455 | 24.167 | 11.767 | 13.647 | .000 | 38.515 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.164

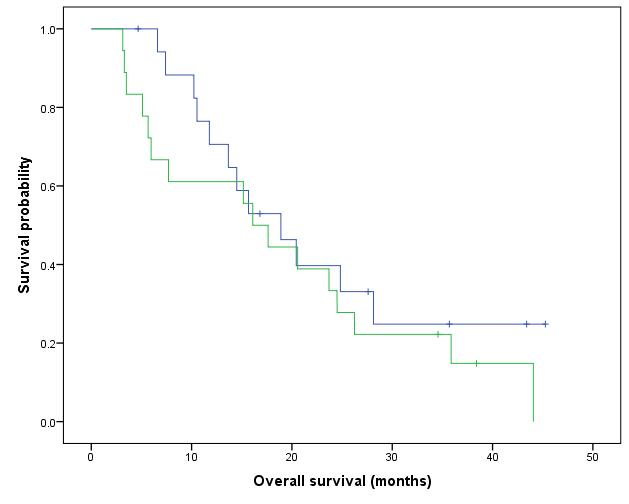


≤ Median

> Median

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| **Medium and Median time of survival** | | | | | | | | |
| POLR1C recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 23.123 | 3.509 | 16.245 | 30.000 | 18.900 | 3.808 | 11.437 | 26.363 |
| >Median | 19.089 | 3.449 | 12.328 | 25.849 | 16.100 | 2.616 | 10.972 | 21.228 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.377

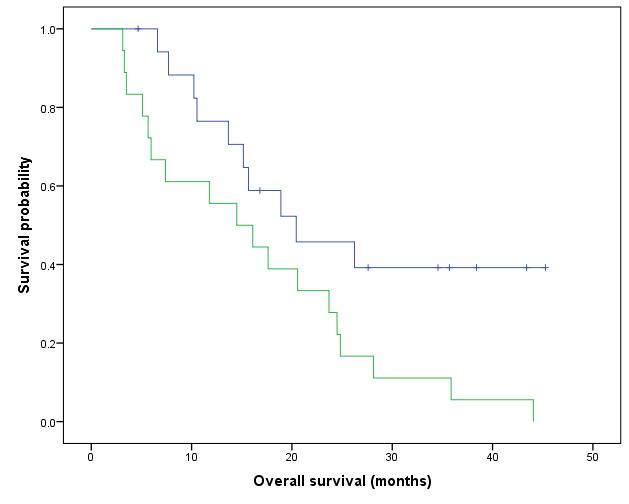


≤ Median

> Median

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| **Medium and Median time of survival** | | | | | | | | |
| POLR1E recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 26.717 | 3.844 | 19.183 | 34.252 | 20.433 | 6.658 | 7.384 | 33.483 |
| >Median | 16.430 | 2.837 | 10.869 | 21.990 | 14.500 | 4.596 | 5.491 | 23.509 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.03

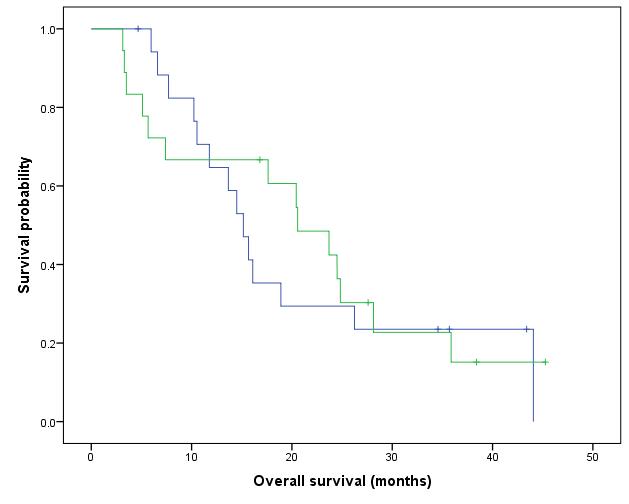


≤ Median

> Median

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| **Medium and Median time of survival** | | | | | | | | |
| POLR3D recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 20.547 | 3.485 | 13.716 | 27.379 | 15.167 | 1.372 | 12.478 | 17.856 |
| >Median | 21.248 | 3.433 | 14.519 | 27.977 | 20.567 | 4.024 | 12.680 | 28.454 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.729

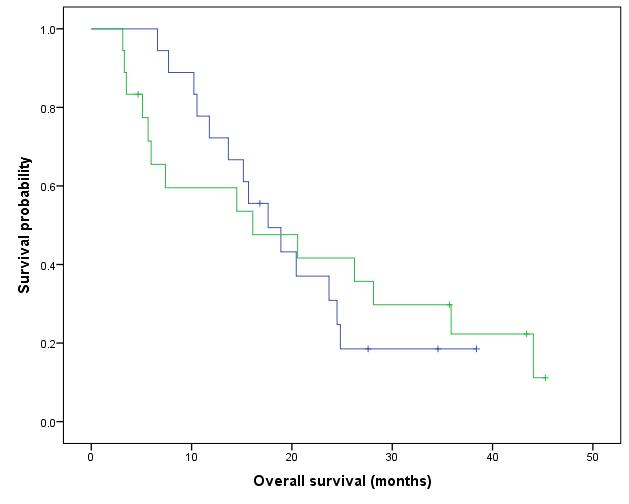


≤ Median

> Median

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| **Medium and Median time of survival** | | | | | | | | |
| POLR3H recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 20.210 | 2.447 | 15.414 | 25.006 | 17.633 | 3.124 | 11.511 | 23.756 |
| >Median | 20.909 | 3.879 | 13.305 | 28.513 | 16.100 | 8.930 | .000 | 33.602 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.880

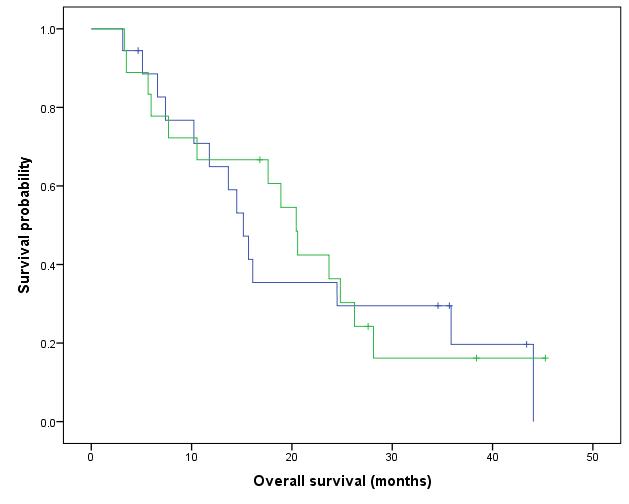


≤ Median

> Median

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| **Medium and Median time of survival** | | | | | | | | |
| PWWP2B recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 20.678 | 3.631 | 13.562 | 27.795 | 15.167 | 1.368 | 12.486 | 17.847 |
| >Median | 20.857 | 3.259 | 14.469 | 27.244 | 20.433 | 1.946 | 16.620 | 24.247 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.782

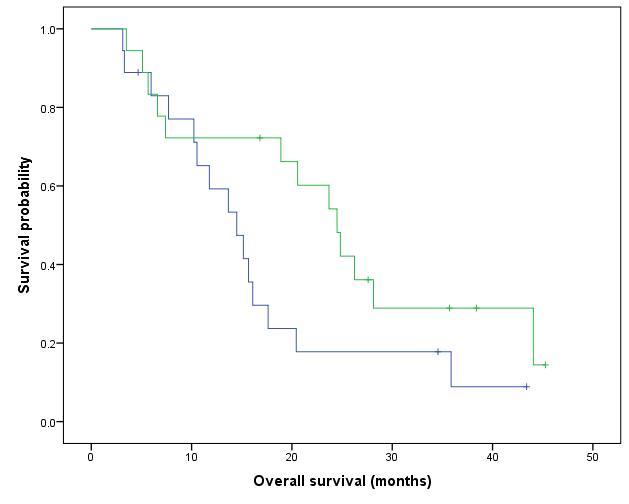


≤ Median

> Median

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| **Medium and Median time of survival** | | | | | | | | |
| RING1 recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 16.847 | 2.836 | 11.288 | 22.406 | 14.500 | 2.316 | 9.960 | 19.040 |
| >Median | 24.856 | 3.580 | 17.838 | 31.873 | 24.500 | 2.857 | 18.901 | 30.099 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.076

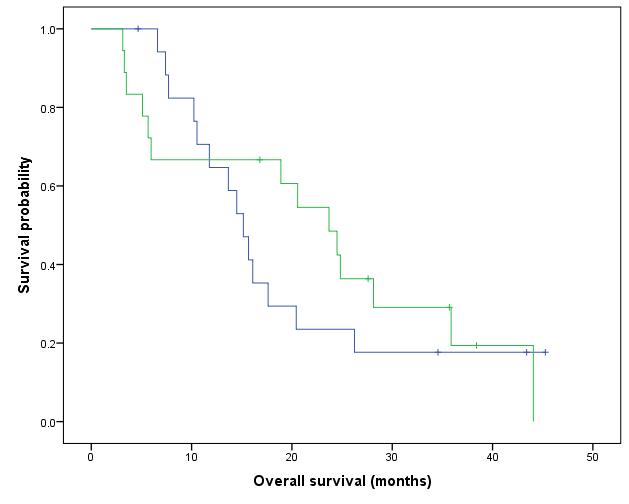


≤ Median

> Median

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| **Medium and Median time of survival** | | | | | | | | |
| RIOX2 recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 19.378 | 3.126 | 13.252 | 25.505 | 15.167 | 1.372 | 12.478 | 17.856 |
| >Median | 22.370 | 3.718 | 15.082 | 29.658 | 23.700 | 3.714 | 16.420 | 30.980 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.577

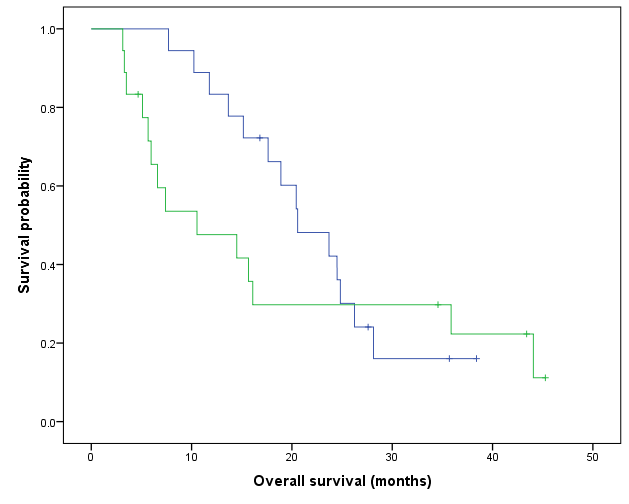


≤ Median

> Median

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Medium and Median time of survival** | | | | | | | | |
| RRM1 recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 22.313 | 2.193 | 18.014 | 26.612 | 20.567 | 3.214 | 14.268 | 26.865 |
| >Median | 18.401 | 3.957 | 10.645 | 26.157 | 10.533 | 5.358 | .032 | 21.035 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.425

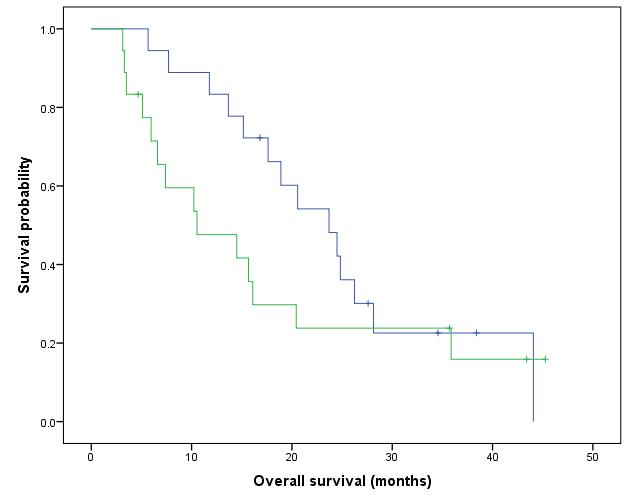


≤ Median

> Median

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Medium and Median time of survival** | | | | | | | | | |
| RRM2 recodified by median | Mediuma | | | | Median | | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 24.471 | 3.085 | 18.425 | 30.517 | 23.700 | 3.749 | 16.351 | 31.049 |
| >Median | 17.282 | 3.612 | 10.202 | 24.362 | 10.533 | 4.815 | 1.095 | 19.971 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.231

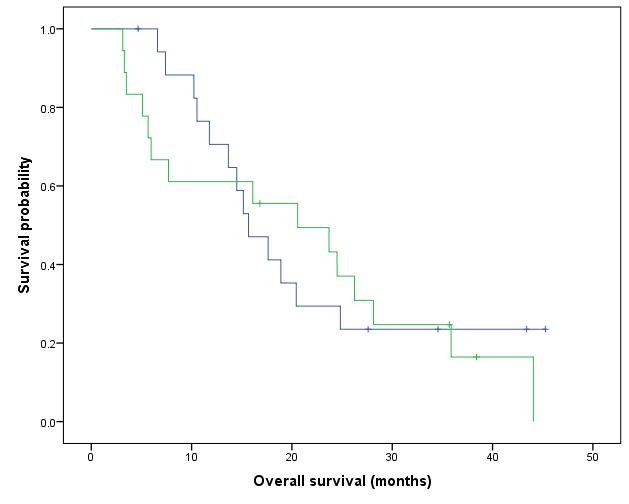


≤ Median

> Median

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| **Medium and Median time of survival** | | | | | | | | |
| RRP1 recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 21.671 | 3.348 | 15.108 | 28.233 | 15.667 | 2.149 | 11.454 | 19.880 |
| >Median | 20.610 | 3.626 | 13.503 | 27.718 | 20.567 | 7.342 | 6.176 | 34.958 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.835

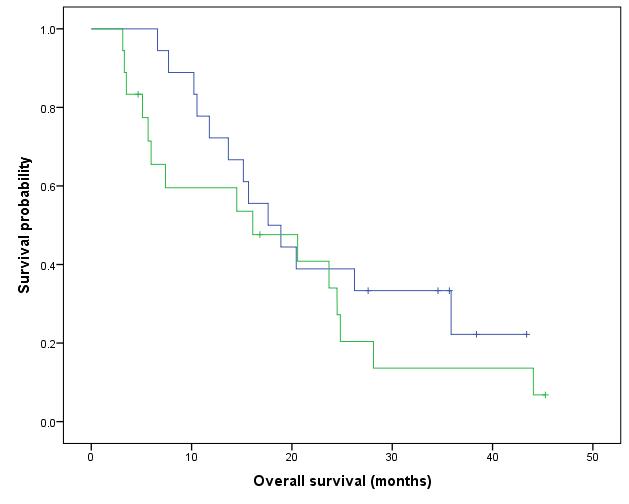


≤ Median

> Median

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| **Medium and Median time of survival** | | | | | | | | |
| RRP9 recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 23.326 | 3.183 | 17.088 | 29.564 | 17.633 | 3.429 | 10.912 | 24.355 |
| >Median | 18.168 | 3.334 | 11.634 | 24.702 | 16.100 | 8.524 | .000 | 32.807 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.315

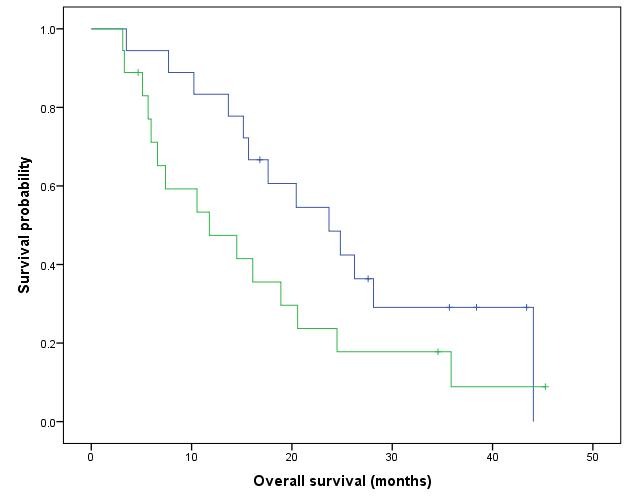


≤ Median

> Median

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Medium and Median time of survival** | | | | | | | | |
| SLC28A3 recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 25.367 | 3.406 | 18.691 | 32.042 | 23.700 | 4.776 | 14.340 | 33.060 |
| >Median | 16.316 | 3.154 | 10.135 | 22.497 | 11.767 | 4.837 | 2.285 | 21.248 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.102

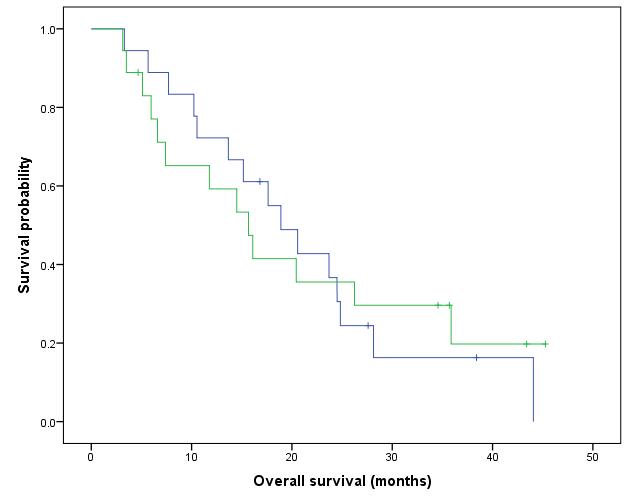


≤ Median

> Median

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Medium and Median time of survival** | | | | | | | | | |
| SLC29A1 recodified by median | Mediuma | | | | Median | | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 21.108 | 3.111 | 15.010 | 27.205 | 18.900 | 2.883 | 13.250 | 24.550 |
| >Median | 20.542 | 3.757 | 13.179 | 27.906 | 15.667 | 2.952 | 9.880 | 21.453 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.926

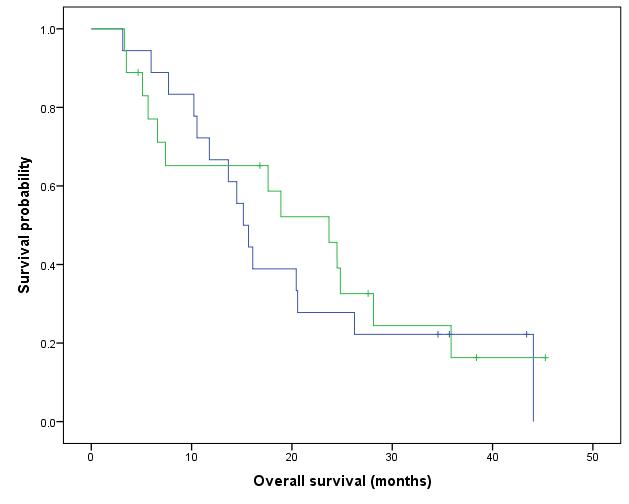


≤ Median

> Median

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Medium and Median time of survival** | | | | | | | | |
| SMARCA5 recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 20.441 | 3.336 | 13.902 | 26.980 | 15.167 | 1.237 | 12.741 | 17.592 |
| >Median | 21.579 | 3.579 | 14.564 | 28.595 | 23.700 | 4.360 | 15.155 | 32.245 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.647

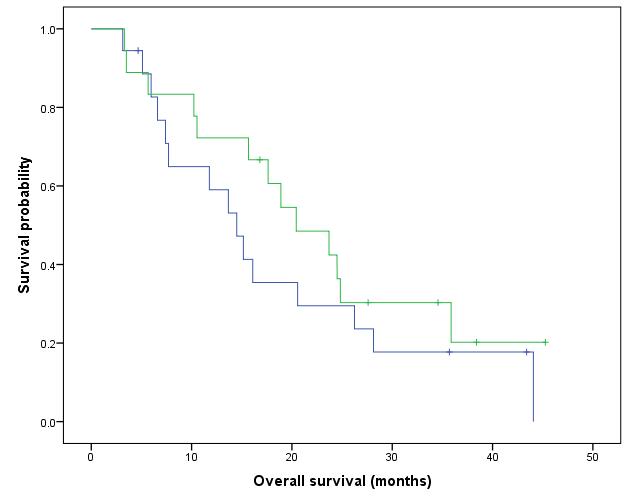


≤ Median

> Median

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Medium and Median time of survival** | | | | | | | | | |
| TET2 recodified by median | Mediuma | | | | Median | | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 18.538 | 3.427 | 11.821 | 25.254 | 14.500 | 2.325 | 9.943 | 19.057 |
| >Median | 23.363 | 3.430 | 16.640 | 30.086 | 20.433 | 4.024 | 12.546 | 28.320 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.308

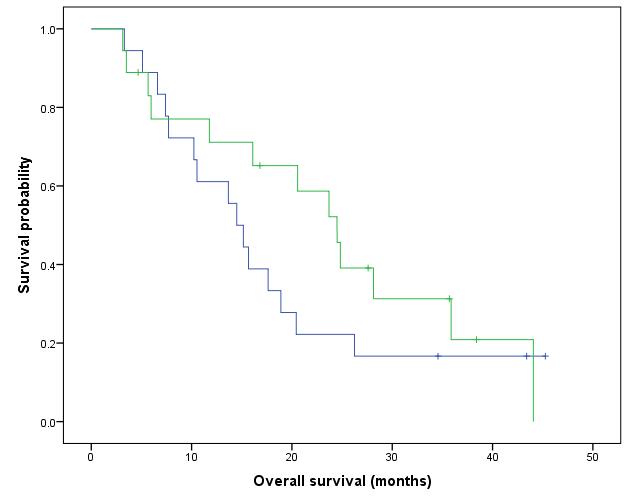


≤ Median

> Median

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Medium and Median time of survival** | | | | | | | | | |
| TP53 recodified by median | Mediuma | | | | Median | | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 18.270 | 3.140 | 12.115 | 24.425 | 14.500 | 1.591 | 11.382 | 17.618 |
| >Median | 23.944 | 3.651 | 16.789 | 31.099 | 24.500 | 2.709 | 19.190 | 29.810 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.308

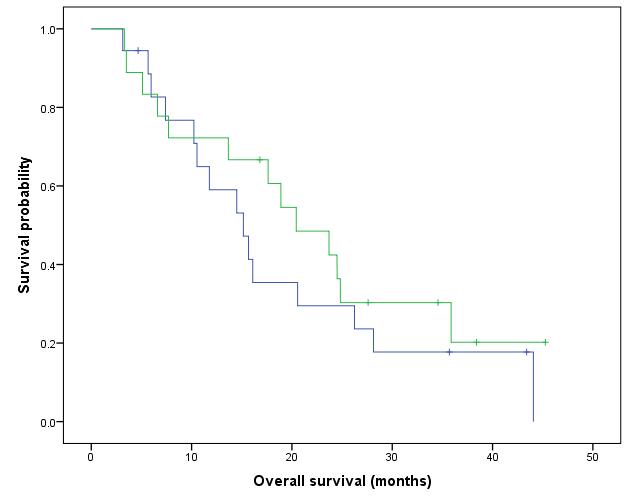


≤ Median

> Median

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Medium and Median time of survival** | | | | | | | | | |
| UCK1 recodified by median | Mediuma | | | | Median | | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 19.071 | 3.337 | 12.531 | 25.611 | 15.167 | 2.667 | 9.939 | 20.394 |
| >Median | 22.861 | 3.536 | 15.930 | 29.792 | 20.433 | 4.024 | 12.546 | 28.320 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.381

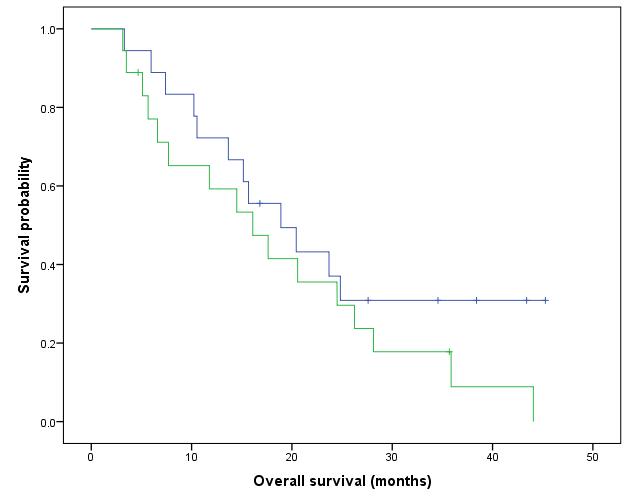


≤ Median

> Median

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Medium and Median time of survival** | | | | | | | | |
| UCK2 recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 23.947 | 3.669 | 16.755 | 31.139 | 18.900 | 4.605 | 9.874 | 27.926 |
| >Median | 18.407 | 3.194 | 12.147 | 24.667 | 16.100 | 3.997 | 8.266 | 23.934 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.241

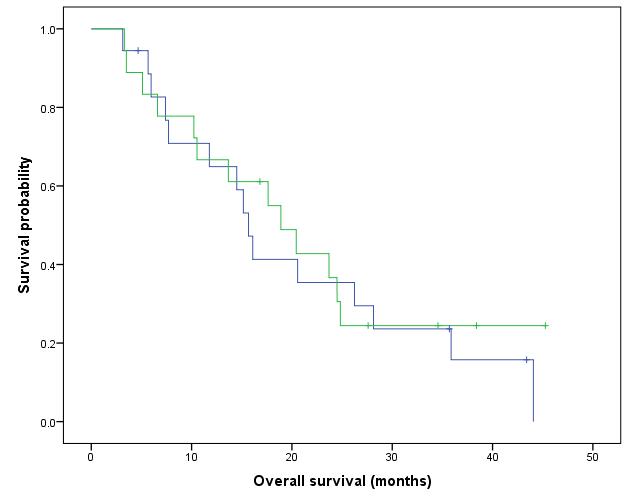


≤ Median

> Median

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Medium and Median time of survival** | | | | | | | | |
| EP300 recodified by median | Mediuma | | | | Median | | | |
| Estimation | Standard error | Confidence intervall of 95% | | Estimation | Standard error | Confidence intervall of 95% | |
| Lower limit | Upper limit | Lower limit | Upper limit |
| <=Median | 20.255 | 3.414 | 13.563 | 26.947 | 15.667 | 1.094 | 13.522 | 17.811 |
| >Median | 21.950 | 3.575 | 14.943 | 28.958 | 18.900 | 2.751 | 13.507 | 24.293 |
| Global | 21.031 | 2.418 | 16.292 | 25.770 | 17.633 | 3.011 | 11.733 | 23.534 |
| a. The estimation is limited to the longest time of survival for censored samples. | | | | | | | | |

p-value (logrank/Mantel-Cox) = 0.671



≤ Median

> Median