

Supplementary Table 5. Differentially methylated probes in RAS mutant versus wild-type FN tumors

| Probe | RASmut.mean | RASwt.mean | Mean.diff | P.value | Promoter.related.gene | Category |
|------------|-------------|------------|-----------|---------|-----------------------|-------------------------------------|
| cg03244411 | 0.641 | 0.309 | 0.332 | 0 | NA | Hypermethylated in RAS mut vs wt FN |
| cg03442569 | 0.583 | 0.219 | 0.364 | 0 | NA | Hypermethylated in RAS mut vs wt FN |
| cg21334598 | 0.707 | 0.344 | 0.363 | 0 | NA | Hypermethylated in RAS mut vs wt FN |
| cg16192707 | 0.630 | 0.302 | 0.328 | 0 | NA | Hypermethylated in RAS mut vs wt FN |
| cg04537567 | 0.456 | 0.164 | 0.292 | 0 | NA | Hypermethylated in RAS mut vs wt FN |
| cg24931520 | 0.602 | 0.326 | 0.276 | 0 | NA | Hypermethylated in RAS mut vs wt FN |
| cg14434870 | 0.627 | 0.351 | 0.276 | 0 | NA | Hypermethylated in RAS mut vs wt FN |
| cg09249404 | 0.563 | 0.283 | 0.281 | 0 | NA | Hypermethylated in RAS mut vs wt FN |
| cg23223319 | 0.587 | 0.324 | 0.263 | 0 | NA | Hypermethylated in RAS mut vs wt FN |
| cg18018027 | 0.460 | 0.151 | 0.310 | 0 | NA | Hypermethylated in RAS mut vs wt FN |
| cg21126183 | 0.417 | 0.126 | 0.291 | 0 | NA | Hypermethylated in RAS mut vs wt FN |
| cg14367020 | 0.656 | 0.372 | 0.283 | 0 | NA | Hypermethylated in RAS mut vs wt FN |
| cg21305834 | 0.644 | 0.373 | 0.271 | 0 | NA | Hypermethylated in RAS mut vs wt FN |
| cg12380339 | 0.716 | 0.398 | 0.318 | 0 | NA | Hypermethylated in RAS mut vs wt FN |
| cg11500797 | 0.746 | 0.471 | 0.275 | 0 | NA | Hypermethylated in RAS mut vs wt FN |
| cg27032146 | 0.721 | 0.445 | 0.276 | 0 | NA | Hypermethylated in RAS mut vs wt FN |
| cg02847649 | 0.702 | 0.417 | 0.285 | 0 | NA | Hypermethylated in RAS mut vs wt FN |
| cg17303756 | 0.541 | 0.194 | 0.347 | 0 | NA | Hypermethylated in RAS mut vs wt FN |
| cg02380531 | 0.559 | 0.232 | 0.327 | 0 | NA | Hypermethylated in RAS mut vs wt FN |
| cg00006081 | 0.708 | 0.445 | 0.263 | 0 | NA | Hypermethylated in RAS mut vs wt FN |
| cg24957695 | 0.611 | 0.338 | 0.273 | 0 | NA | Hypermethylated in RAS mut vs wt FN |
| cg24448969 | 0.574 | 0.277 | 0.298 | 0 | HMX2 | Hypermethylated in RAS mut vs wt FN |
| cg12739584 | 0.521 | 0.251 | 0.270 | 0 | NA | Hypermethylated in RAS mut vs wt FN |
| cg17697633 | 0.851 | 0.558 | 0.293 | 0 | TFAP2A | Hypermethylated in RAS mut vs wt FN |
| cg09016968 | 0.622 | 0.339 | 0.282 | 0 | NA | Hypermethylated in RAS mut vs wt FN |

Supplementary Table 5 (continued)

| Probe | RASmut.mean | RASwt.mean | Mean.diff | P.value | Promoter.related.gene | Category |
|------------|-------------|------------|-----------|---------|-----------------------|-------------------------------------|
| cg11052202 | 0.593 | 0.278 | 0.314 | 0.000 | NA | Hypermethylated in RAS mut vs wt FN |
| cg18240331 | 0.739 | 0.449 | 0.290 | 0.000 | TFAP2A | Hypermethylated in RAS mut vs wt FN |
| cg15810758 | 0.544 | 0.254 | 0.290 | 0.000 | NA | Hypermethylated in RAS mut vs wt FN |
| cg24684807 | 0.436 | 0.170 | 0.266 | 0.000 | NA | Hypermethylated in RAS mut vs wt FN |
| cg02162880 | 0.816 | 0.555 | 0.261 | 0.000 | TFAP2A | Hypermethylated in RAS mut vs wt FN |
| cg09637273 | 0.608 | 0.339 | 0.269 | 0.000 | NA | Hypermethylated in RAS mut vs wt FN |
| cg05929882 | 0.531 | 0.252 | 0.279 | 0.000 | TBX5 | Hypermethylated in RAS mut vs wt FN |
| cg17338430 | 0.762 | 0.455 | 0.307 | 0.000 | NA | Hypermethylated in RAS mut vs wt FN |
| cg13486532 | 0.765 | 0.503 | 0.262 | 0.000 | NA | Hypermethylated in RAS mut vs wt FN |
| cg01088410 | 0.806 | 0.483 | 0.324 | 0.000 | NA | Hypermethylated in RAS mut vs wt FN |
| cg21275135 | 0.510 | 0.229 | 0.281 | 0.000 | NA | Hypermethylated in RAS mut vs wt FN |
| cg07492757 | 0.810 | 0.554 | 0.256 | 0.000 | TFAP2A | Hypermethylated in RAS mut vs wt FN |
| cg06103642 | 0.676 | 0.422 | 0.254 | 0.000 | NA | Hypermethylated in RAS mut vs wt FN |
| cg19290410 | 0.641 | 0.354 | 0.287 | 0.000 | TBX5 | Hypermethylated in RAS mut vs wt FN |
| cg17259358 | 0.487 | 0.198 | 0.289 | 0.001 | NA | Hypermethylated in RAS mut vs wt FN |
| cg11751545 | 0.619 | 0.369 | 0.250 | 0.001 | NA | Hypermethylated in RAS mut vs wt FN |
| cg05545672 | 0.690 | 0.431 | 0.260 | 0.001 | NA | Hypermethylated in RAS mut vs wt FN |
| cg22870775 | 0.531 | 0.256 | 0.275 | 0.001 | NA | Hypermethylated in RAS mut vs wt FN |
| cg09383907 | 0.626 | 0.372 | 0.254 | 0.001 | NA | Hypermethylated in RAS mut vs wt FN |
| cg21434530 | 0.492 | 0.239 | 0.254 | 0.002 | NA | Hypermethylated in RAS mut vs wt FN |
| cg01692639 | 0.477 | 0.202 | 0.275 | 0.002 | NA | Hypermethylated in RAS mut vs wt FN |
| cg05368966 | 0.601 | 0.342 | 0.259 | 0.002 | NA | Hypermethylated in RAS mut vs wt FN |
| cg06273075 | 0.711 | 0.452 | 0.259 | 0.002 | MIR193B | Hypermethylated in RAS mut vs wt FN |
| cg10420310 | 0.700 | 0.445 | 0.255 | 0.003 | MIR193B | Hypermethylated in RAS mut vs wt FN |
| cg21534423 | 0.404 | 0.150 | 0.253 | 0.003 | NA | Hypermethylated in RAS mut vs wt FN |

Supplementary Table 5 (continued)

| Probe | RASmut.mean | RASwt.mean | Mean.diff | P.value | Promoter.related.gene | Category |
|------------|-------------|------------|-----------|---------|-----------------------|-------------------------------------|
| cg16559598 | 0.647 | 0.373 | 0.274 | 0.003 | TBX5 | Hypermethylated in RAS mut vs wt FN |
| cg23273897 | 0.614 | 0.357 | 0.257 | 0.003 | MME | Hypermethylated in RAS mut vs wt FN |
| cg10281002 | 0.724 | 0.471 | 0.253 | 0.004 | TBX5 | Hypermethylated in RAS mut vs wt FN |
| cg08944170 | 0.751 | 0.451 | 0.300 | 0.004 | OR2L13 | Hypermethylated in RAS mut vs wt FN |
| cg04906879 | 0.740 | 0.473 | 0.267 | 0.004 | LOC440925_SP5 | Hypermethylated in RAS mut vs wt FN |
| cg00785941 | 0.671 | 0.410 | 0.262 | 0.004 | OR2L13 | Hypermethylated in RAS mut vs wt FN |
| cg01837362 | 0.620 | 0.313 | 0.307 | 0.004 | NA | Hypermethylated in RAS mut vs wt FN |
| cg15855970 | 0.580 | 0.314 | 0.266 | 0.004 | NA | Hypermethylated in RAS mut vs wt FN |
| cg22071224 | 0.700 | 0.450 | 0.250 | 0.005 | LOC440925 | Hypermethylated in RAS mut vs wt FN |
| cg18074954 | 0.627 | 0.318 | 0.309 | 0.005 | NA | Hypermethylated in RAS mut vs wt FN |
| cg22345214 | 0.591 | 0.283 | 0.308 | 0.005 | GABRA4 | Hypermethylated in RAS mut vs wt FN |
| cg06083330 | 0.719 | 0.454 | 0.265 | 0.005 | NA | Hypermethylated in RAS mut vs wt FN |
| cg15377586 | 0.694 | 0.443 | 0.251 | 0.006 | LOC440925_SP5 | Hypermethylated in RAS mut vs wt FN |
| cg10514097 | 0.562 | 0.266 | 0.297 | 0.006 | FOXF1 | Hypermethylated in RAS mut vs wt FN |
| cg00551679 | 0.673 | 0.392 | 0.282 | 0.007 | NA | Hypermethylated in RAS mut vs wt FN |
| cg04624110 | 0.640 | 0.317 | 0.323 | 0.007 | MACROD2 | Hypermethylated in RAS mut vs wt FN |
| cg23054189 | 0.651 | 0.293 | 0.358 | 0.007 | TRIM58 | Hypermethylated in RAS mut vs wt FN |
| cg20507276 | 0.706 | 0.434 | 0.271 | 0.008 | OR2L13 | Hypermethylated in RAS mut vs wt FN |
| cg01552272 | 0.574 | 0.277 | 0.297 | 0.008 | MACROD2 | Hypermethylated in RAS mut vs wt FN |
| cg25951981 | 0.578 | 0.290 | 0.289 | 0.008 | GABRA4 | Hypermethylated in RAS mut vs wt FN |
| cg07533148 | 0.634 | 0.292 | 0.342 | 0.008 | TRIM58 | Hypermethylated in RAS mut vs wt FN |
| cg20810478 | 0.647 | 0.288 | 0.359 | 0.009 | TRIM58 | Hypermethylated in RAS mut vs wt FN |
| cg20146541 | 0.623 | 0.282 | 0.341 | 0.009 | TRIM58 | Hypermethylated in RAS mut vs wt FN |
| cg24154839 | 0.622 | 0.320 | 0.302 | 0.009 | GABRA4 | Hypermethylated in RAS mut vs wt FN |
| cg04407470 | 0.568 | 0.309 | 0.259 | 0.009 | NA | Hypermethylated in RAS mut vs wt FN |

Supplementary Table 5 (continued)

| Probe | RASmut.mean | RASwt.mean | Mean.diff | P.value | Promoter.related.gene | Category |
|------------|-------------|------------|-----------|---------|-----------------------|-------------------------------------|
| cg03692651 | 0.823 | 0.570 | 0.254 | 0.009 | NA | Hypermethylated in RAS mut vs wt FN |
| cg21802055 | 0.561 | 0.276 | 0.284 | 0.009 | NA | Hypermethylated in RAS mut vs wt FN |
| cg10983544 | 0.487 | 0.218 | 0.268 | 0.009 | TRIM58 | Hypermethylated in RAS mut vs wt FN |
| cg16976370 | 0.623 | 0.314 | 0.310 | 0.009 | GABRA4 | Hypermethylated in RAS mut vs wt FN |
| cg23169957 | 0.583 | 0.280 | 0.303 | 0.009 | MACROD2 | Hypermethylated in RAS mut vs wt FN |
| cg16021909 | 0.584 | 0.275 | 0.310 | 0.009 | NA | Hypermethylated in RAS mut vs wt FN |
| cg03748376 | 0.741 | 0.446 | 0.295 | 0.009 | OR2L13 | Hypermethylated in RAS mut vs wt FN |
| cg25557432 | 0.550 | 0.243 | 0.308 | 0.010 | MACROD2 | Hypermethylated in RAS mut vs wt FN |
| cg13713830 | 0.636 | 0.380 | 0.256 | 0.010 | NA | Hypermethylated in RAS mut vs wt FN |
| cg00046499 | 0.689 | 0.410 | 0.279 | 0.011 | NA | Hypermethylated in RAS mut vs wt FN |
| cg20429172 | 0.676 | 0.356 | 0.320 | 0.011 | TRIM58 | Hypermethylated in RAS mut vs wt FN |
| cg08447525 | 0.561 | 0.309 | 0.252 | 0.011 | GPR149 | Hypermethylated in RAS mut vs wt FN |
| cg23191956 | 0.472 | 0.217 | 0.255 | 0.011 | FOXG1 | Hypermethylated in RAS mut vs wt FN |
| cg26157385 | 0.561 | 0.280 | 0.281 | 0.012 | TRIM58 | Hypermethylated in RAS mut vs wt FN |
| cg24080577 | 0.582 | 0.311 | 0.270 | 0.012 | HS3ST1 | Hypermethylated in RAS mut vs wt FN |
| cg25440035 | 0.624 | 0.352 | 0.272 | 0.012 | NA | Hypermethylated in RAS mut vs wt FN |
| cg05057720 | 0.777 | 0.502 | 0.274 | 0.014 | CLEC14A | Hypermethylated in RAS mut vs wt FN |
| cg10530883 | 0.502 | 0.224 | 0.278 | 0.015 | IRX1 | Hypermethylated in RAS mut vs wt FN |
| cg23358625 | 0.743 | 0.489 | 0.254 | 0.016 | RPSAP58 | Hypermethylated in RAS mut vs wt FN |
| cg05475934 | 0.699 | 0.447 | 0.252 | 0.017 | APBB1IP | Hypermethylated in RAS mut vs wt FN |
| cg09789636 | 0.637 | 0.363 | 0.275 | 0.017 | NA | Hypermethylated in RAS mut vs wt FN |
| cg17861230 | 0.683 | 0.370 | 0.313 | 0.017 | NA | Hypermethylated in RAS mut vs wt FN |
| cg11671688 | 0.734 | 0.465 | 0.270 | 0.018 | GPR6 | Hypermethylated in RAS mut vs wt FN |
| cg05347845 | 0.667 | 0.404 | 0.263 | 0.018 | ACTA1 | Hypermethylated in RAS mut vs wt FN |
| cg04480386 | 0.472 | 0.218 | 0.255 | 0.019 | NA | Hypermethylated in RAS mut vs wt FN |

Supplementary Table 5 (continued)

| Probe | RASmut.mean | RASwt.mean | Mean.diff | P.value | Promoter.related.gene | Category |
|------------|-------------|------------|-----------|---------|-----------------------|-------------------------------------|
| cg05605052 | 0.639 | 0.372 | 0.267 | 0.019 | RPSAP58 | Hypermethylated in RAS mut vs wt FN |
| cg16404157 | 0.790 | 0.534 | 0.255 | 0.020 | CLEC14A | Hypermethylated in RAS mut vs wt FN |
| cg16690757 | 0.554 | 0.280 | 0.274 | 0.022 | NA | Hypermethylated in RAS mut vs wt FN |
| cg21834207 | 0.509 | 0.242 | 0.267 | 0.026 | AGBL4 | Hypermethylated in RAS mut vs wt FN |
| cg12185828 | 0.580 | 0.300 | 0.279 | 0.027 | GCA | Hypermethylated in RAS mut vs wt FN |
| cg03145999 | 0.611 | 0.343 | 0.268 | 0.030 | ZSCAN18 | Hypermethylated in RAS mut vs wt FN |
| cg16269733 | 0.709 | 0.445 | 0.264 | 0.030 | NA | Hypermethylated in RAS mut vs wt FN |
| cg18884037 | 0.487 | 0.208 | 0.279 | 0.032 | KHDRBS2 | Hypermethylated in RAS mut vs wt FN |
| cg01963134 | 0.636 | 0.360 | 0.276 | 0.032 | CPNE8 | Hypermethylated in RAS mut vs wt FN |
| cg21784036 | 0.562 | 0.290 | 0.271 | 0.035 | CPNE8 | Hypermethylated in RAS mut vs wt FN |
| cg13509195 | 0.579 | 0.294 | 0.285 | 0.036 | CPNE8 | Hypermethylated in RAS mut vs wt FN |
| cg06781135 | 0.645 | 0.376 | 0.269 | 0.038 | LOC100270746 | Hypermethylated in RAS mut vs wt FN |
| cg19098763 | 0.602 | 0.327 | 0.275 | 0.039 | ELAVL4 | Hypermethylated in RAS mut vs wt FN |
| cg22014661 | 0.485 | 0.228 | 0.257 | 0.043 | KHDRBS2 | Hypermethylated in RAS mut vs wt FN |
| cg14229668 | 0.595 | 0.338 | 0.257 | 0.043 | GCA | Hypermethylated in RAS mut vs wt FN |
| cg06629130 | 0.631 | 0.376 | 0.256 | 0.046 | NA | Hypermethylated in RAS mut vs wt FN |
| cg02162286 | 0.610 | 0.330 | 0.280 | 0.047 | NA | Hypermethylated in RAS mut vs wt FN |
| cg07363657 | 0.365 | 0.701 | -0.336 | 0.000 | NA | Hypomethylated in RAS mut vs wt FN |
| cg13700197 | 0.552 | 0.820 | -0.268 | 0.000 | NA | Hypomethylated in RAS mut vs wt FN |
| cg25279294 | 0.352 | 0.645 | -0.293 | 0.000 | OR4D1 | Hypomethylated in RAS mut vs wt FN |
| cg23261846 | 0.422 | 0.686 | -0.264 | 0.000 | NA | Hypomethylated in RAS mut vs wt FN |
| cg26090775 | 0.172 | 0.470 | -0.298 | 0.000 | NA | Hypomethylated in RAS mut vs wt FN |
| cg21591693 | 0.435 | 0.713 | -0.278 | 0.000 | NA | Hypomethylated in RAS mut vs wt FN |
| cg06042826 | 0.443 | 0.703 | -0.260 | 0.000 | NA | Hypomethylated in RAS mut vs wt FN |
| cg24239420 | 0.427 | 0.691 | -0.263 | 0.000 | NA | Hypomethylated in RAS mut vs wt FN |

Supplementary Table 5 (continued)

| Probe | RASmut.mean | RASwt.mean | Mean.diff | P.value | Promoter.related.gene | Category |
|------------|-------------|------------|-----------|---------|-----------------------|------------------------------------|
| cg07190012 | 0.172 | 0.434 | -0.262 | 0 | NA | Hypomethylated in RAS mut vs wt FN |
| cg08113628 | 0.322 | 0.588 | -0.266 | 0 | NA | Hypomethylated in RAS mut vs wt FN |
| cg12494373 | 0.303 | 0.581 | -0.278 | 0 | NA | Hypomethylated in RAS mut vs wt FN |
| cg13638737 | 0.374 | 0.648 | -0.274 | 0 | NA | Hypomethylated in RAS mut vs wt FN |
| cg01296395 | 0.309 | 0.584 | -0.274 | 0 | NA | Hypomethylated in RAS mut vs wt FN |
| cg22466678 | 0.197 | 0.506 | -0.309 | 0 | NA | Hypomethylated in RAS mut vs wt FN |
| cg02713162 | 0.228 | 0.497 | -0.269 | 0 | NA | Hypomethylated in RAS mut vs wt FN |
| cg15374435 | 0.129 | 0.449 | -0.320 | 0 | NA | Hypomethylated in RAS mut vs wt FN |
| cg22573118 | 0.359 | 0.653 | -0.294 | 0 | CCR3 | Hypomethylated in RAS mut vs wt FN |
| cg26635451 | 0.282 | 0.583 | -0.301 | 0 | NA | Hypomethylated in RAS mut vs wt FN |
| cg20253855 | 0.261 | 0.518 | -0.257 | 0 | NA | Hypomethylated in RAS mut vs wt FN |
| cg10015974 | 0.360 | 0.625 | -0.265 | 0 | NA | Hypomethylated in RAS mut vs wt FN |
| cg11032640 | 0.389 | 0.641 | -0.251 | 0 | NA | Hypomethylated in RAS mut vs wt FN |
| cg00110846 | 0.324 | 0.580 | -0.256 | 0 | NA | Hypomethylated in RAS mut vs wt FN |
| cg05589489 | 0.234 | 0.584 | -0.351 | 0 | NA | Hypomethylated in RAS mut vs wt FN |
| cg05403689 | 0.379 | 0.688 | -0.309 | 0 | NA | Hypomethylated in RAS mut vs wt FN |
| cg26732360 | 0.422 | 0.684 | -0.261 | 0 | NA | Hypomethylated in RAS mut vs wt FN |
| cg03024678 | 0.283 | 0.567 | -0.284 | 0 | NA | Hypomethylated in RAS mut vs wt FN |
| cg26912671 | 0.267 | 0.544 | -0.277 | 0 | PDE4B | Hypomethylated in RAS mut vs wt FN |
| cg15296664 | 0.324 | 0.623 | -0.300 | 0 | NA | Hypomethylated in RAS mut vs wt FN |
| cg21034034 | 0.459 | 0.720 | -0.261 | 0 | NA | Hypomethylated in RAS mut vs wt FN |
| cg08802841 | 0.240 | 0.565 | -0.325 | 0 | NA | Hypomethylated in RAS mut vs wt FN |
| cg13519918 | 0.242 | 0.546 | -0.304 | 0 | NA | Hypomethylated in RAS mut vs wt FN |
| cg06282556 | 0.322 | 0.576 | -0.254 | 0 | NA | Hypomethylated in RAS mut vs wt FN |
| cg23191950 | 0.351 | 0.617 | -0.266 | 0 | ALDH1A3 | Hypomethylated in RAS mut vs wt FN |

Supplementary Table 5 (continued)

| Probe | RASmut.mean | RASwt.mean | Mean.diff | P.value | Promoter.related.gene | Category |
|--------------|--------------------|-------------------|------------------|----------------|------------------------------|------------------------------------|
| cg11543937 | 0.375 | 0.676 | -0.302 | 0.001 | SPINK5 | Hypomethylated in RAS mut vs wt FN |
| cg18607411 | 0.182 | 0.435 | -0.253 | 0.001 | NA | Hypomethylated in RAS mut vs wt FN |
| cg07179669 | 0.143 | 0.400 | -0.257 | 0.001 | NA | Hypomethylated in RAS mut vs wt FN |
| cg17502594 | 0.321 | 0.577 | -0.257 | 0.001 | NA | Hypomethylated in RAS mut vs wt FN |
| cg17367545 | 0.435 | 0.704 | -0.269 | 0.001 | NA | Hypomethylated in RAS mut vs wt FN |
| cg12905371 | 0.282 | 0.548 | -0.265 | 0.001 | NA | Hypomethylated in RAS mut vs wt FN |
| cg09174502 | 0.319 | 0.599 | -0.280 | 0.001 | NA | Hypomethylated in RAS mut vs wt FN |
| cg14580211 | 0.333 | 0.635 | -0.302 | 0.001 | NA | Hypomethylated in RAS mut vs wt FN |
| cg21306949 | 0.270 | 0.538 | -0.269 | 0.001 | NA | Hypomethylated in RAS mut vs wt FN |
| cg01093028 | 0.415 | 0.690 | -0.275 | 0.001 | NA | Hypomethylated in RAS mut vs wt FN |
| cg18391978 | 0.267 | 0.539 | -0.273 | 0.001 | NA | Hypomethylated in RAS mut vs wt FN |
| cg08035234 | 0.240 | 0.525 | -0.285 | 0.001 | NA | Hypomethylated in RAS mut vs wt FN |
| cg19022814 | 0.193 | 0.448 | -0.255 | 0.001 | NA | Hypomethylated in RAS mut vs wt FN |
| cg25131544 | 0.210 | 0.469 | -0.259 | 0.001 | NA | Hypomethylated in RAS mut vs wt FN |
| cg02767633 | 0.272 | 0.524 | -0.252 | 0.001 | NA | Hypomethylated in RAS mut vs wt FN |
| cg00361495 | 0.179 | 0.431 | -0.252 | 0.001 | TRIL | Hypomethylated in RAS mut vs wt FN |
| cg09883659 | 0.427 | 0.697 | -0.270 | 0.002 | NA | Hypomethylated in RAS mut vs wt FN |
| cg07473822 | 0.516 | 0.777 | -0.262 | 0.002 | NA | Hypomethylated in RAS mut vs wt FN |
| cg21864304 | 0.470 | 0.748 | -0.278 | 0.002 | NA | Hypomethylated in RAS mut vs wt FN |
| cg04687515 | 0.363 | 0.615 | -0.252 | 0.002 | NA | Hypomethylated in RAS mut vs wt FN |
| cg10499974 | 0.450 | 0.749 | -0.300 | 0.002 | NA | Hypomethylated in RAS mut vs wt FN |
| cg26516362 | 0.069 | 0.361 | -0.292 | 0.003 | RUFY1 | Hypomethylated in RAS mut vs wt FN |
| cg02136620 | 0.229 | 0.479 | -0.250 | 0.003 | RUFY1 | Hypomethylated in RAS mut vs wt FN |
| cg09805254 | 0.445 | 0.697 | -0.252 | 0.003 | NA | Hypomethylated in RAS mut vs wt FN |
| cg02051616 | 0.121 | 0.377 | -0.256 | 0.003 | NA | Hypomethylated in RAS mut vs wt FN |

Supplementary Table 5 (continued)

| Probe | RASmut.mean | RASwt.mean | Mean.diff | P.value | Promoter.related.gene | Category |
|------------|-------------|------------|-----------|---------|-----------------------|------------------------------------|
| cg01916918 | 0.330 | 0.591 | -0.260 | 0.004 | NA | Hypomethylated in RAS mut vs wt FN |
| cg18256640 | 0.465 | 0.724 | -0.259 | 0.005 | NA | Hypomethylated in RAS mut vs wt FN |
| cg07616471 | 0.290 | 0.552 | -0.261 | 0.005 | NA | Hypomethylated in RAS mut vs wt FN |
| cg15929797 | 0.154 | 0.531 | -0.377 | 0.005 | NA | Hypomethylated in RAS mut vs wt FN |
| cg00080972 | 0.124 | 0.414 | -0.290 | 0.006 | RUFY1 | Hypomethylated in RAS mut vs wt FN |
| cg09060608 | 0.118 | 0.389 | -0.271 | 0.006 | RUFY1 | Hypomethylated in RAS mut vs wt FN |
| cg00982919 | 0.209 | 0.504 | -0.296 | 0.006 | NA | Hypomethylated in RAS mut vs wt FN |
| cg05638439 | 0.323 | 0.639 | -0.316 | 0.006 | NA | Hypomethylated in RAS mut vs wt FN |
| cg21226059 | 0.073 | 0.374 | -0.301 | 0.007 | RUFY1 | Hypomethylated in RAS mut vs wt FN |
| cg14820908 | 0.104 | 0.405 | -0.302 | 0.007 | RUFY1 | Hypomethylated in RAS mut vs wt FN |
| cg05457628 | 0.085 | 0.346 | -0.261 | 0.007 | RUFY1 | Hypomethylated in RAS mut vs wt FN |
| cg11068784 | 0.337 | 0.626 | -0.289 | 0.010 | NA | Hypomethylated in RAS mut vs wt FN |
| cg08686011 | 0.391 | 0.644 | -0.254 | 0.013 | NA | Hypomethylated in RAS mut vs wt FN |
| cg08946658 | 0.435 | 0.695 | -0.259 | 0.014 | NA | Hypomethylated in RAS mut vs wt FN |
| cg04405612 | 0.380 | 0.655 | -0.276 | 0.015 | NA | Hypomethylated in RAS mut vs wt FN |
| cg11230031 | 0.260 | 0.519 | -0.259 | 0.016 | NA | Hypomethylated in RAS mut vs wt FN |
| cg02852791 | 0.253 | 0.522 | -0.268 | 0.018 | NA | Hypomethylated in RAS mut vs wt FN |
| cg23286646 | 0.316 | 0.584 | -0.268 | 0.019 | NA | Hypomethylated in RAS mut vs wt FN |
| cg03287339 | 0.273 | 0.527 | -0.254 | 0.020 | NA | Hypomethylated in RAS mut vs wt FN |