**Supplementary Table 1. Amplicons.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Chromosome** | **Gene** | **Starting point on the chromosome** | **Ending point on the chromosome** |
| chr17 | *TP53* | 7576972  | 7577196 |
| chr17 | *TP53* | 7577398  | 7577615 |
| chr17 | *TP53* | 7578087  | 7578296 |
| chr17 | *TP53* | 7578209  | 7578421 |
| chr17 | *TP53* | 7578385  | 7578554 |
| chr12 | *KRAS* | 25378561  | 25378663 |
| chr12 | *KRAS* | 25380260  | 25380337 |
| chr12 | *KRAS* | 25398183  | 25398385 |
| chr2 | *DNMT3A* | 25457048  | 25457271 |
| chr2 | *DNMT3A* | 25457266  | 25457438 |
| chr2 | *DNMT3A* | 25458501  | 25458729 |
| chr2 | *DNMT3A* | 25461879  | 25462103 |
| chr2 | *DNMT3A* | 25463103  | 25463329 |
| chr2 | *DNMT3A* | 25463445  | 25463664 |
| chr2 | *DNMT3A* | 25466627  | 25466857 |
| chr2 | *DNMT3A* | 25466845  | 25467042 |
| chr2 | *DNMT3A* | 25467042  | 25467265 |
| chr2 | *DNMT3A* | 25467937  | 25468158 |
| chr2 | *DNMT3A* | 25468148  | 25468373 |
| chr2 | *DNMT3A* | 25468816  | 25469022 |
| chr2 | *DNMT3A* | 25470424  | 25470643 |
| chr2 | *DNMT3A* | 25505266  | 25505486 |
| chr2 | *DNMT3A* | 25505375  | 25505580 |
| chr13 | *FLT3* | 28592526  | 28592736 |
| chr13 | *FLT3* | 28607944  | 28608146 |
| chr13 | *FLT3* | 28608136  | 28608351 |
| chr20 | *ASXL1* | 31022172  | 31022395 |
| chr20 | *ASXL1* | 31022369  | 31022591 |
| chr20 | *ASXL1* | 31022586  | 31022704 |
| chr20 | *ASXL1* | 31022694  | 31022850 |
| chr20 | *ASXL1* | 31022840  | 31022970 |
| chr20 | *ASXL1* | 31022960  | 31023162 |
| chr20 | *ASXL1* | 31023152  | 31023379 |
| chr20 | *ASXL1* | 31023369  | 31023585 |
| chr20 | *ASXL1* | 31023575  | 31023763 |
| chr20 | *ASXL1* | 31023752  | 31023954 |
| chr20 | *ASXL1* | 31023943  | 31024159 |
| chr20 | *ASXL1* | 31024149  | 31024325 |
| chr20 | *ASXL1* | 31024315  | 31024531 |
| chr20 | *ASXL1* | 31024521  | 31024642 |
| chr20 | *ASXL1* | 31024632  | 31024847 |
| chr20 | *ASXL1* | 31024837  | 31024967 |
| chr20 | *ASXL1* | 31024957  | 31025108 |
| chr20 | *ASXL1* | 31025098  | 31025231 |
| chr11 | *WT1* | 32413419  | 32413642 |
| chr11 | *WT1* | 32417766  | 32417991 |
| chr19 | *CEBPA* | 33792139  | 33792354 |
| chr19 | *CEBPA* | 33792278  | 33792486 |
| chr19 | *CEBPA* | 33792478  | 33792688 |
| chr19 | *CEBPA* | 33792702  | 33792835 |
| chr19 | *CEBPA* | 33792824  | 33792994 |
| chr19 | *CEBPA* | 33793011  | 33793112 |
| chr19 | *CEBPA* | 33793102  | 33793322 |
| chr19 | *CEBPA* | 33793311  | 33793455 |
| chr21 | *RUNX1* | 36164535  | 36164731 |
| chr21 | *RUNX1* | 36164686  | 36164881 |
| chr21 | *RUNX1* | 36171591  | 36171810 |
| chr21 | *RUNX1* | 36206706  | 36206885 |
| chr21 | *RUNX1* | 36206885  | 36206960 |
| chr21 | *RUNX1* | 36231716  | 36231936 |
| chrX | *BCOR* | 39913101  | 39913326 |
| chrX | *BCOR* | 39931583  | 39931744 |
| chrX | *BCOR* | 39931734  | 39931962 |
| chrX | *BCOR* | 39931952  | 39932172 |
| chrX | *BCOR* | 39932162  | 39932388 |
| chrX | *BCOR* | 39932378  | 39932558 |
| chrX | *BCOR* | 39932548  | 39932705 |
| chrX | *BCOR* | 39932695  | 39932850 |
| chrX | *BCOR* | 39932844  | 39933029 |
| chrX | *BCOR* | 39933019  | 39933111 |
| chrX | *BCOR* | 39933101  | 39933284 |
| chrX | *BCOR* | 39933274  | 39933487 |
| chrX | *BCOR* | 39933477  | 39933695 |
| chrX | *BCOR* | 39933685  | 39933912 |
| chrX | *BCOR* | 39933902  | 39934057 |
| chrX | *BCOR* | 39934056  | 39934232 |
| chrX | *BCOR* | 39934222  | 39934433 |
| chr4 | *PDGFRA* | 55140978  | 55141171 |
| chr4 | *PDGFRA* | 55144028  | 55144209 |
| chr4 | *PDGFRA* | 55151970  | 55152169 |
| chr4 | *KIT* | 55589691  | 55589906 |
| chr4 | *KIT* | 55592021  | 55592244 |
| chr4 | *KIT* | 55593533  | 55593758 |
| chr4 | *KIT* | 55594136  | 55594350 |
| chr4 | *KIT* | 55599232  | 55599363 |
| chr15 | *IDH2* | 90631752  | 90631976 |
| chr4 | *TET2* | 106154900  | 106155124 |
| chr4 | *TET2* | 106155114  | 106155255 |
| chr4 | *TET2* | 106155245  | 106155450 |
| chr4 | *TET2* | 106155440  | 106155658 |
| chr4 | *TET2* | 106155648  | 106155853 |
| chr4 | *TET2* | 106155843  | 106156042 |
| chr4 | *TET2* | 106156032  | 106156254 |
| chr4 | *TET2* | 106156244  | 106156445 |
| chr4 | *TET2* | 106156435  | 106156651 |
| chr4 | *TET2* | 106156641  | 106156862 |
| chr4 | *TET2* | 106156852  | 106157077 |
| chr4 | *TET2* | 106157067  | 106157290 |
| chr4 | *TET2* | 106157279  | 106157503 |
| chr4 | *TET2* | 106157493  | 106157707 |
| chr4 | *TET2* | 106157697  | 106157926 |
| chr4 | *TET2* | 106157914  | 106158107 |
| chr4 | *TET2* | 106158097  | 106158311 |
| chr4 | *TET2* | 106158301  | 106158508 |
| chr4 | *TET2* | 106196185  | 106196384 |
| chr4 | *TET2* | 106196374  | 106196596 |
| chr4 | *TET2* | 106196585  | 106196796 |
| chr4 | *TET2* | 106196786  | 106197009 |
| chr4 | *TET2* | 106196999  | 106197224 |
| chr4 | *TET2* | 106197214  | 106197382 |
| chr4 | *TET2* | 106197372  | 106197476 |
| chr4 | *TET2* | 106197466  | 106197684 |
| chr1 | *NRAS* | 115252147  | 115252339 |
| chr1 | *NRAS* | 115256452  | 115256669 |
| chr1 | *NRAS* | 115258642  | 115258862 |
| chr11 | *KMT2A* | 118307508  | 118307730 |
| chr11 | *KMT2A* | 118339410  | 118339601 |
| chr11 | *KMT2A* | 118342301  | 118342521 |
| chr11 | *KMT2A* | 118342511  | 118342729 |
| chr11 | *KMT2A* | 118342806  | 118343033 |
| chr11 | *KMT2A* | 118342986  | 118343209 |
| chr11 | *KMT2A* | 118343256  | 118343480 |
| chr11 | *KMT2A* | 118343876  | 118344086 |
| chr11 | *KMT2A* | 118344128  | 118344348 |
| chr11 | *KMT2A* | 118344416  | 118344631 |
| chr11 | *KMT2A* | 118344618  | 118344844 |
| chr11 | *KMT2A* | 118344788  | 118344974 |
| chr11 | *KMT2A* | 118344901  | 118345117 |
| chr11 | *KMT2A* | 118347468  | 118347688 |
| chr11 | *KMT2A* | 118348744  | 118348963 |
| chr11 | *KMT2A* | 118350829  | 118351048 |
| chr11 | *KMT2A* | 118352495  | 118352723 |
| chr11 | *KMT2A* | 118352684  | 118352908 |
| chr11 | *KMT2A* | 118353099  | 118353317 |
| chr11 | *KMT2A* | 118354860  | 118355079 |
| chr11 | *KMT2A* | 118355570  | 118355756 |
| chr11 | *KMT2A* | 118359272  | 118359490 |
| chr11 | *KMT2A* | 118361806  | 118362026 |
| chr11 | *KMT2A* | 118362451  | 118362671 |
| chr11 | *KMT2A* | 118363738  | 118363951 |
| chr11 | *KMT2A* | 118366949  | 118367154 |
| chr11 | *KMT2A* | 118368602  | 118368825 |
| chr11 | *KMT2A* | 118369981  | 118370202 |
| chr11 | *KMT2A* | 118370532  | 118370703 |
| chr11 | *KMT2A* | 118371656  | 118371873 |
| chr11 | *KMT2A* | 118372413  | 118372629 |
| chr11 | *KMT2A* | 118373060  | 118373282 |
| chr11 | *KMT2A* | 118373329  | 118373551 |
| chr11 | *KMT2A* | 118373497  | 118373721 |
| chr11 | *KMT2A* | 118373897  | 118374121 |
| chr11 | *KMT2A* | 118374045  | 118374272 |
| chr11 | *KMT2A* | 118374363  | 118374586 |
| chr11 | *KMT2A* | 118374571  | 118374799 |
| chr11 | *KMT2A* | 118374774  | 118374999 |
| chr11 | *KMT2A* | 118374954  | 118375177 |
| chr11 | *KMT2A* | 118375163  | 118375390 |
| chr11 | *KMT2A* | 118375380  | 118375607 |
| chr11 | *KMT2A* | 118375670  | 118375895 |
| chr11 | *KMT2A* | 118375891  | 118376116 |
| chr11 | *KMT2A* | 118376084  | 118376310 |
| chr11 | *KMT2A* | 118376376  | 118376581 |
| chr11 | *KMT2A* | 118376640  | 118376861 |
| chr11 | *KMT2A* | 118376882  | 118377107 |
| chr11 | *KMT2A* | 118377071  | 118377299 |
| chr11 | *KMT2A* | 118378136  | 118378356 |
| chr11 | *KMT2A* | 118379754  | 118379963 |
| chr11 | *KMT2A* | 118380620  | 118380843 |
| chr11 | *KMT2A* | 118382567  | 118382759 |
| chr11 | *KMT2A* | 118390297  | 118390527 |
| chr11 | *KMT2A* | 118390582  | 118390808 |
| chr11 | *KMT2A* | 118391431  | 118391644 |
| chr11 | *KMT2A* | 118391950  | 118392174 |
| chr11 | *KMT2A* | 118392524  | 118392745 |
| chr11 | *KMT2A* | 118392775  | 118393002 |
| chr3 | *GATA2* | 128199857  | 128200076 |
| chr3 | *GATA2* | 128200055  | 128200175 |
| chr3 | *GATA2* | 128200582  | 128200725 |
| chr3 | *GATA2* | 128200683  | 128200879 |
| chr3 | *GATA2* | 128202522  | 128202721 |
| chr3 | *GATA2* | 128202711  | 128202879 |
| chr3 | *GATA2* | 128204458  | 128204646 |
| chr3 | *GATA2* | 128204578  | 128204788 |
| chr3 | *GATA2* | 128204779  | 128204922 |
| chr3 | *GATA2* | 128204912  | 128205058 |
| chr3 | *GATA2* | 128205033  | 128205216 |
| chr3 | *GATA2* | 128205543  | 128205771 |
| chr3 | *GATA2* | 128205739  | 128205968 |
| chrX | *PHF6* | 133511598  | 133511809 |
| chrX | *PHF6* | 133511939  | 133512072 |
| chrX | *PHF6* | 133512062  | 133512262 |
| chrX | *PHF6* | 133527347  | 133527553 |
| chrX | *PHF6* | 133527543  | 133527709 |
| chrX | *PHF6* | 133527855  | 133528004 |
| chrX | *PHF6* | 133547404  | 133547596 |
| chrX | *PHF6* | 133547586  | 133547696 |
| chrX | *PHF6* | 133547806  | 133548001 |
| chrX | *PHF6* | 133548854  | 133549067 |
| chrX | *PHF6* | 133549056  | 133549120 |
| chrX | *PHF6* | 133551169  | 133551357 |
| chrX | *PHF6* | 133559196  | 133559416 |
| chr7 | *EZH2* | 148506335  | 148506550 |
| chr7 | *EZH2* | 148507353  | 148507579 |
| chr7 | *EZH2* | 148523390  | 148523575 |
| chr7 | *EZH2* | 148523565  | 148523778 |
| chr5 | *NPM1* | 170837497  | 170837642 |
| chr2 | *IDH1* | 209112993  | 209113209 |