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| Homo sapiens ABL proto-oncogene 1, non-receptor tyrosine kinase (ABL1) |
| Transcript variant a, mRNA (NCBI Reference Sequence: NM\_005157.5) | Transcript variant b, mRNA (NCBI Reference Sequence: NM\_007313.2) |
| (a) 1 ttaacaggcg cgtcccggcc aggcggagac gcggccgcgg ccatgggcgg gcgcgggcgc 61 gcggggcggc ggtgagggcg gctggcgggg ccgg**gggcgc cgggggggcg cgcg**ggccga 121 gccgggcctg agccgggccc gcggaccgag ctgggagagg gg**t**tccggcc cccgacgtgc 181 tggcgcggga aaatgttgga gatctgcctg aagctggtgg gctgcaaatc caagaagggg**Bieurnax (c,f) \*181** tggcgcggga aaatgttgga gatctgcctg aagctggtg**g gctgcaaatc** **caagaagggg****Bose (c,f) \*181** tggcgcggga aaatg**ttgga** **gatct*g*cctg** **aag**ctggtgg gctgcaaatc caagaagggg**Song (c,f1.1) \*181** tggcgcggga aaatgttgga g**atctgcctg** **aagctggtgg** **gct**gcaaatc caagaagggg**Ismail (c,f) \*181** tggcgcggga aaatgttgga gatctgcctg aagctggtgg g**ctgcaaatc** **caagaagggg** 241 ctgtcctcgt cctccagctg ttatctggaa gaagcccttc agcggccagt agcatctgac**Bieurnax (c,f) \*241** **ctgt**cctcgt cctccagctg ttatctggaa gaagcccttc agcggccagt agcatctgac**Song (c,f1.3) \*241** ctgtcctcgt cctccagctg ttatctggaa gaagccctt**c agcggccagt** **agcatctgac** **Ismail (c,f) \*241** **ctg**tcctcgt cctccagctg ttatctggaa gaagcccttc agcggccagt agcatctgac 301 tttgagcctc agggtctgag tgaagccgct cgttggaact ccaaggaaaa ccttctcgct**Song (c,f1.3) \*301** **t**ttgagcctc agggtctgag tgaagccgct cgttggaact ccaaggaaaa ccttctcgct**Song (c,f2.1) \*301** tttgagcctc agggtctg**a*g* tgaagccgct cgttggaact** **ccaa**ggaaaa ccttctcgct**Song (c,f2.2) \*301** tttga**gcctc** **agggtctgag tgaagccgct** **cgttg**gaact ccaaggaaaa ccttctcgct**Uckun (m 2) \*301** tttgagcctc ag**ggtctgag** **tgaagccgct** **cg**ttggaact ccaaggaaaa ccttctcgct**Kosik \*301** t**ttgagcctc** **agggtctgag tg**aagccgct cgttggaact ccaaggaaaa ccttctcgct 361 ggacccagtg aaaatgaccc caaccttttc gttgcactgt atgattttgt ggccagtgga **Bieurnax (2) \*361** ggacccagtg aaaatgaccc caacctttt**c** **gttgcactgt** **atgattttgt** **ggcc**agtgga**Ravetto (2) \*361** ggacccagtg aaaatgaccc caaccttttc gttgc**actgt atgattttgt** **ggccagtgga****Song (2.1) \*361** ggacccagtg aaaatgaccc caaccttttc gttgcac**tgt** **atgatttt*g*t** **ggcca*g*tgga****Boquett (1) \*361** ggacccagtg aaaatgaccc caaccttttc gttgcactgt atg**attttgt** **ggccagtgga****Boquett (2) \*361** ggacccagtg aaaatgaccc caaccttttc gttgca**ctgt** **atgattttgt ggccagtgga****Ismail (m 2) \*361** ggacccagtg aaaatgaccc caaccttttc gttgcact**gt atgattttgt ggcc**agtgga 421 gataacactc taagcataac **t**aaaggtgaa aagctccggg tcttaggcta taatcacaat **Bieurnax (1) \*421** gataacactc taagcataac taaaggtgaa aag**ctccggg** **tcttaggcta** **ta*a*tcac*a***at**Ravetto (1) \*421** gataacactc taagcataac taaaggtgaa aag**ctccggg** **tcttaggcta taatcaca**at **Hsu (2) \*421** gataacactc taagcataac taaaggtgaa aagctccggg tct**taggcta** **taatcacaat****Song (1.1) \*421** gataacactc taagcataac taaaggtgaa aagc**tccggg** **tcttaggcta taatca**caat**Song (2.1) \*421** **gat**aacactc taagcataac taaaggtgaa aagctccggg tcttaggcta taatcacaat**Song (2.2) \*421** gataacactc taagcataac taaaggt**gaa** **aagctccggg tcttaggcta** **taatcaca**at**Boquett (1) \*421 g**ataacactc taagcataac taaaggtgaa aagctccggg tcttaggcta taatcacaat**Boquett (2) \*421 g**ataacactc taagcataac taaaggtgaa aagctccggg tcttaggcta taatcacaat**Uckun (m 1) \*421** gataacactc taagcataac taaaggtgaa aag**ctccggg tcttaggcta** **taatcaca**at 481 ggggaatggt gtgaagccca aaccaaaaat ggccaaggct gggtcccaag caactacatc **Bose (2) \*481** ggggaatggt gtgaagccca aaccaaaaat ggccaaggct gggtc**ccaag** **caactacatc** **Hsu (1) \*481** gg**ggaatggt gtgaagccca aac**caaaaat ggccaaggct gggtcccaag caactacatc **Hsu (2) \*481** **ggggaa**tggt gtgaagccca aaccaaaaat ggccaaggct gggtcccaag caactacatc**le Coutre (2) \*481** ggggaatggt gtgaagccca aaccaaaaat ggccaaggct gggtc**ccaag** **caactacatc****Song (1.2) \*481** gg**ggaatggt gtgaagccca aaccaaaaat gg**ccaaggct gggtcccaag caactacatc **Ismail (1) \*481** ggggaatggt gtgaagccca aaccaaaaat ggccaaggct gggtc**ccaag** **caactacatc** **Ismail (2) \*481** **ggggaatggt gtgaa**gccca aaccaaaaat ggccaaggct gggtcccaag caactacatc541 acgccagtca acagtctgga gaaacactcc tggtaccatg ggcctgtgtc ccgcaatgcc**Bose (1) \*541** acgccagtca a**cagtctgga gaaacactcc tggtacc**atg ggcctgtgtc ccgcaatgcc **Bose (2) \*541** **acgccagtca** **aca**gtctgga gaaacactcc tggtaccatg ggcctgtgtc ccgcaatgcc **Bose (c,r) \*541** acgccagt**ca acagtctgga** **gaaacactc**c tggtaccatg ggcctgtgtc ccgcaatgcc**le Coutre (1) \*541** acgccagtca a**cagtctgga gaaacactcc** **tggtacc**atg ggcctgtgtc ccgcaatgcc**le** **Coutre (2) \*541** **acgccagtca aca**gtctgga gaaacactcc tggtaccatg ggcctgtgtc ccgcaatgcc**Ismail (1) \*541** **acgccagtca aca**gtctgga gaaacactcc tggtaccatg ggcctgtgtc ccgcaatgcc 601 gctgagtatc tgctgagcag cgggatcaat ggcagcttct tggtgcgtga gagtgagagc 661 agtcctggcc agaggtccat ctcgctgaga tacgaaggga gggtgtacca ttacaggatc 721 aacactgctt ctgatggcaa gctctacgtc tcctccgaga gccgcttcaa caccctggcc 781 gagttggttc atcatcattc aacggtggcc gacgggctca tcaccacgct ccattatcca 841 gccccaaagc gcaacaagcc cactgtctat ggtgtgtccc ccaactacga caagtgggag 901 atggaacgca cggacatcac catgaagcac aagctgggcg ggggccagta cggggaggtg 961 tacgagggcg tgtggaagaa atacagcctg acggtggccg tgaagacctt 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gctgaaaagg atcgaggcat ggggcatgtc ctttccatct gtccacatcc 4621 ccagagccca gctcttgctc tcttgtgacg tgcactgtga atcctggcaa gaaagcttga 4681 gtctcaaggg tggcaggtca ctgtcactgc cgacatccct cccccagcag aatggaggca 4741 ggggacaagg gaggcagtgg ctagtggggt gaacagctgg tgccaaatag ccccagactg 4801 ggcccaggca ggtctgcaag ggcccagagt gaaccgtcct ttcacacatc tgggtgccct 4861 gaaagggccc ttcccctccc ccactcctct aagacaaagt agattcttac aaggcccttt 4921 cctttggaac aagacagcct tcacttttct gagttcttga agcatttcaa agccctgcct 4981 ctgtgtagcc gccctgagag agaatagagc tgccactggg cacctgcgca caggtgggag 5041 gaaagggcct ggccagtcct ggtcctggct gcactcttga actgggcgaa tgtcttattt 5101 aattaccgtg agtgacatag cctcatgttc tgtgggggtc atcagggagg gttaggaaaa 5161 ccacaaacgg agcccctgaa agcctcacgt atttcacaga gcacgcctgc catcttctcc 5221 ccgaggctgc cccaggccgg agcccagata cgggggctgt gactctgggc agggacccgg 5281 ggtctcctgg accttgacag agcagctaac tccgagagca gtgggcaggt ggccgcccct 5341 gaggcttcac gccgggagaa gccaccttcc caccccttca taccgcctcg tgccagcagc 5401 ctcgcacagg 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| Green highlighted sequence = sequence in exon 1a, i.e. the sequence that is different between variant a and b (1 – 271)Blue highlighted sequence = sequence in exon 2 (272 – 445)Grey highlighted sequence = sequence in exon 3 (446 – 741) | Green highlighted sequence = sequence in exon 1b, i.e. the sequence that is different between variant a and b (1 – 575)*Note: all the other primers not involving exon 1b were shown in Figure 6(a).* |
| 1. = used in first run; **(2)** = used in second run; **(c,f)** = nucleotide sequence used as control, forward in the study; **(c,r)** = nucleotide sequence used as control, reverse in the study; **(m)** = used in m-BCR

***Italic*** = different nucleotide sequence was used in the studyt, c, a, g = single nucleotide variant (**t, c, a, g** if frequency ≥1% (based on ExAC MAF)); x = nucleotides with insertion / deletion polymorphism (**x** if frequency ≥1% (based on ExAC MAF)) [retrieved 18th - 28th November 2018 from NCBI <https://www.ncbi.nlm.nih.gov/variation/view/?q=ABL1&filters=source%3Adbsnp&assm=GCF_000001405.26>. Location of nucleotides in transcript in reference to coding DNA was cross-checked on 18th November 2018 from NCBI<https://www.ncbi.nlm.nih.gov/projects/SNP/snp_ref.cgi?geneId=25&ctg=NT_008470.20&mrna=NM_005157.5&prot=NP_005148.2&orien=forward>] |

Supplementary Figure 2. Primer sequence used in the studies in reference to the ABL1 sequence (a) transcript variant a NM\_005157.5 (retrieved 24th October 2018 from NCBI <https://www.ncbi.nlm.nih.gov/nuccore/NM_005157.5>), (b) transcript variant b NM\_007313.2 (retrieved 14th May 2018 from NCBI <https://www.ncbi.nlm.nih.gov/nuccore/NM_007313>)