

**Table S1.** Examples of mutation-inducing Alu insertions into human genes.

Gene	Alu subfamily	Poly(A) tail	References
<i>CD40LG</i>	Yb8	A <sub>13</sub>	Apoil <i>et al.</i> (2007)
<i>EYA1</i>	Ya5	A <sub>97</sub> mother A <sub>37</sub> daughter	Abdelhak <i>et al.</i> (1997)
<i>FGFR2</i>	Ya5 case 1 Yb8 case 2	A <sub>69</sub> A <sub>44-50</sub>	Oldridge <i>et al.</i> (1999)
<i>ChE</i>	Yb8	A <sub>38</sub>	Muratani <i>et al.</i> , (1991)
<i>C1 inhibitor</i>	Y	A <sub>57</sub>	Stoppa-Lyonnet <i>et al.</i> (1991)
<i>BRCA2</i>	Y	A <sub>64</sub>	Miki <i>et al.</i> (1996)
<i>GK</i>	Y	A <sub>74</sub>	Zhang <i>et al.</i> (2000)
<i>CLCN5</i>	Ya5	A <sub>48-53</sub>	Claverie-Martin <i>et al.</i> (2003)
<i>HESX1</i>	Yb8	A <sub>31</sub>	Sobrier <i>et al.</i> , (2005)
<i>CFTR ex 16 ex 17b</i>	Y Ya5	A <sub>57</sub> A <sub>56</sub>	Chen <i>et al.</i> (2007)
<i>PTEN</i>	Ya5 Yb8	A <sub>40</sub> A <sub>31</sub>	Crivelli <i>et al.</i> (2017)
<i>ATP7A</i>	Ya5a2	A <sub>89</sub>	Gu <i>et al.</i> (2007)
<i>PKLR</i>	Yb9	A <sub>72</sub>	Lesmana <i>et al.</i> (2018)
<i>LPL</i>	YB9	A <sub>&gt;60</sub>	Okubo <i>et al.</i> (2007)
<i>GNPTAB</i>	???	A <sub>17</sub>	Tappino <i>et al.</i> (2007)
<i>FGFR2</i>	Yk13	A <sub>12</sub>	Bochukova <i>et al.</i> (2009)
<i>FBP1</i>	Ya5	A <sub>49</sub>	Ramakrishna <i>et al.</i> , (2017)
<i>POMT1</i>	Ya5	A <sub>-53</sub>	Bouchet <i>et al.</i> (2007)
<i>OPA1</i>	Yb8	A <sub>25</sub>	Gallus <i>et al.</i> (2010)
<i>APC</i>	Yb8	A <sub>42</sub>	Halling <i>et al.</i> (1999)
<i>BTK</i>	Y	A <sub>74</sub>	Conley <i>et al.</i> (2005)
<i>CAR</i>	Ya5	A <sub>92-94</sub>	Janicic <i>et al.</i> (1995)
<i>CRB1</i>	Y	A <sub>&gt;70</sub>	den Hollander <i>et al.</i> (1999)
<i>F9</i>	Ya/Yb	A <sub>40</sub>	Li <i>et al.</i> (2001)
<i>HMBS</i>	Ya5	A <sub>39</sub>	Mustajoki <i>et al.</i> (1999)
<i>NF1</i>	Ya5	A <sub>&gt;40</sub>	Wallace <i>et al.</i> (1991)
<i>TNFRSF6</i>	AluYa5	A <sub>34</sub>	Tighe <i>et al.</i> (2002)

F8	AluYb8	A <sub>47</sub>	Sukarova <i>et al.</i> (2001)
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