

**Supplemental Table 1**

<b>TOXCAT construct</b>	<b>PCR primers</b>
<i>rCx26-TM1</i>	<i>sense</i> AAGCTAGCATTGGGAAAATCTGGCTCACT <i>antisense</i> TTGGATCCCCGCGGCCACCACGAGGATCAT
<i>rCx26-TM2</i>	<i>sense</i> AAGCTAGCCTCTGGGCTCTGCAGCTGATC <i>antisense</i> TTGGATCCCCGCGGCCACGTGCATAGCTACCAG
<i>rCx26-TM3</i>	<i>sense</i> AAGCTAGCGTCATCTTCGAAGCTGTCTTC <i>antisense</i> TTGGATCCCCTGCATGAAGAAGCCATTGTA
<i>rCx26-TM3 A</i>	<i>sense</i> AAGCTAGCCTGTGGTGGACCTACACCACC <i>antisense</i> TTGGATCCCCGAAGACAGCTTCGAAGAT
<i>rCx26-TM4</i>	<i>sense</i> AAGCTAGCGTCTTCACGGTGTTTCATGATC <i>antisense</i> TTGGATCCCCAGCTCTGTGATGTTTAGCAG
<i>rCx43-TM1</i>	<i>sense</i> AAGCTAGCACCGCTGGAGGGAAGGTGTGG <i>antisense</i> TTGGATCCCAACAGCTGTCCCAGGAGCAG
<i>rCx43-TM1 A</i>	<i>sense</i> AAGCTAGCGGAGGGAAGGTGTGGCTGTCA <i>antisense</i> TTGGATCCCCAGGAGCAGGATTCTGAA
	<b>Re-annealing primers</b>
<i>TM1 Cx26Del VVAA</i>	<i>sense</i> CTAGCGGAAAATCTGGCTCACTGTCCTCTTCATCTTCCGCAT CATGATCCTCCG <i>antisense</i> GATCCGGAGGATCATGATGCGGAAGATGAAGAGGACAGT GAGCCAGATTTTCCCG
<i>TM1Cx26GTAV</i>	<i>sense</i> CTAGCGGAAAATCTGGCTCACTGTCCTCTTCATCTTCCGCAT CATGATCCTCGGGACAGCTGTTTCG <i>antisense</i> GATCCGAACAGCTGTCCCAGGATCATGATGCGGAAGATG AAGAGGACAGTGAGCCAGATTTTCCCG
<i>TM1Cx26V37I</i>	<i>sense</i> CTAGCGGAAAATCTGGCTCACTGTCCTCTTCATCTTCCGCAT CATGATCCTCATA GTGGCCGCGCG <i>antisense</i> GATCCGCGCGGCCACTATGAGGATCATGATGCGGAAGATG AAGAGGACAGTGAGCCAGATTTTCCCG
<i>TM1Cx26A40G</i>	<i>sense</i> CTAGCGGAAAATCTGGCTCACTGTCCTCTTCATCTTCCGCAT CATGATCCTCGTGGTGGCCGGGCGGGATC <i>antisense</i> GATCCGCCCGGCCACCACGAGGATCATGATGCGGAAGAT GAAGAGGACAGTGAGCCAGATTTTCCCG
<b>Mutant construct</b>	<b>Primers</b>
<i>Cx26 GTAV</i>	<i>sense</i> GCCGTTAAGGAGGTGTGGGGAGATGAGCAAGCCGAT <i>antisense</i> TGTGCCGAGGATCATGATGCGGAAGATGAAGAGGAC
<i>Cx26V37I-GFP</i>	<i>sense</i> CGCATCATGATCCTCATA GTGGCCGCGAAGGAGG <i>antisense</i> CCTCCTTCGCGGCCACTATGAGGATCATGATGCG
<i>Cx26A40G-GFP</i>	<i>antisense</i> TCCCCACACCTCCTTCCC GGCCACCACGAGGAT <i>sense</i> ATCCTCGTGGTGGCCGGGAAGGAGGTGTGGGGA
<i>Cx26V37C-GFP</i>	<i>sense</i> CGCATCATGATCCTCTGTGTGGCCGCGAAGGAGGTG <i>antisense</i> CACCTCCTTCGCGGCCACACAGAGGATCATGATGCG
<i>Cx26A40C-GFP</i>	<i>sense</i> GATCCTCGTCGTGGCCGTGAAGGAGGTGTGGGG <i>antisense</i> CCCCACACCTCCTTACAGGCCACGACGAGGATC
<b>Sequencing primer</b>	GAATACGCAGAATCAAGCAGTGTG