

**Table S1 Molecular Lesions of Mutations Identified in This Work**

Serotonin resistance mutation	Nucleotide sequence of the wild type <sup>a</sup>	Nucleotide sequence of the mutant <sup>a</sup>	Affected amino acid in the wild-type protein	Amino acid in the mutant protein
<i>goa-1(vs115)</i>	tgcgtatatt <b>C</b> aagcacaatt	tgcgtatatt <b>T</b> aagcacaatt	Q305	Stop
<i>goa-1(vs134)</i>	agacggcatg <b>C</b> aagcggcaaa	agacggcatg <b>T</b> aagcggcaaa	Q29	Stop
<i>goa-1(n4093)</i>	tgcaccacatacagtgagtca	tgcaccacat[Mos1]acagtgagtca		
<i>goa-1(n4402)</i>	cttcgtggat <b>G</b> cggttgat	cttcgtggat <b>A</b> cggttgat	C351	Y
<i>goa-1(n4405)</i>	ctagcgccat <b>G</b> ggttgacca	ctagcgccat <b>A</b> ggttgacca	M1	N/A
<i>goa-1(n4439)</i>	catattttca <b>G</b> aaccgaatgc	catattttca <b>A</b> aaccgaatgc	intron 5 splice acceptor	N/A
<i>goa-1(n4492)</i>	ttttcagaac <b>C</b> gaatgcacga	ttttcagaac <b>T</b> gaatgcacga	R243	Stop
<i>goa-1(n4493)</i>	aacggtgtg <b>G</b> ggagacgcag	aacggtgtg <b>A</b> ggagacgcag	W132	Stop
<i>goa-1(n4494)</i>	agcgaataag <b>G</b> taagaaaaaa	agcgaataag <b>A</b> taagaaaaaa	intron 7 splice donor	N/A
<i>eat-16(n4403)</i>	aacctcgat <b>C</b> agacattgga	aacctcgat <b>T</b> agacattgga		
<i>abts-1(n4094)</i>	actttcatcgattatacagct	actttcatcga[Mos1]ttatacagct	N/A	N/A
<i>ser-4(vs122)</i>	atTTTTgcag <b>G</b> ttacctaaac	atTTTTgcag <b>A</b> ttacctaaac	G410	D
<i>emb-9(vs114)</i>	ggtcagccag <b>G</b> ttatccagga	ggtcagccag <b>A</b> ttatccagga	G1197	D
<i>flp-1(n4491)</i>	ttattattca <b>G</b> gtgtcggcag	ttattattca <b>A</b> gtgtcggcag	intron 1 splice acceptor	N/A
<i>flp-1(n4495)</i>	atcattttca <b>G</b> tcgaagtga	atcattttca <b>A</b> tcgaagtga	intron 4 splice acceptor	N/A
<i>mod-1(vs107)</i>	atggatgtgt <b>G</b> gatgcttgga	atggatgtgt <b>A</b> gatgcttgga	W305	Stop
<i>mod-1(n3791)</i>	ttgatcttg <b>G</b> gtttcattct	ttgatcttg <b>A</b> gtttcattct	W258	Stop
<i>mod-1(n4054)</i>	ctacgtcttactttccagttt	ctacgtcttac[Mos1]ttccagttt	N/A	N/A
<i>elpc-3(vs119)</i>	catgtatacg <b>G</b> atccgtcgtt	catgtatacg <b>A</b> atccgtcgtt	G475	E

<sup>a</sup>The affected nucleotide is capitalized and 10 nucleotides on either side are shown.