

File S6

Additional explanation of Chromosome IV QTLs determined by common segment method.

QTLs in bold are supported by more than one introgression line.

Introgression lines	QTL (Mb)	NILs that define QTLs
First set of <i>kyIR</i> lines	QTL1 (~2.29 - ~4.99)	Common HW sequence present in HW-phenotype strains (<i>kyIR28</i> , <i>kyIR73</i> , <i>kyIR26</i> , <i>kyIR51</i> , <i>kyIR52</i> and <i>kyIR27</i>). Likely also suppressor(s) in this region, but each would only be defined by one line.
Nested <i>kyIR</i> lines	QTL2 (~0.79 - ~1.03)	Common HW sequence present in HW-phenotype strains (<i>kyIR76</i> and <i>kyIR74</i>) and absent in N2-phenotype strain (<i>kyIR54</i>).
	QTL3 (~1.80 - ~2.76)	Common HW sequence present in HW-phenotype strains (<i>kyIR67</i> , <i>kyIR68</i> , <i>kyIR75</i> , and <i>kyIR65</i>) and absent in N2-phenotype strains (<i>kyIR66</i> , <i>kyIR42</i> , and <i>kyIR71</i>).
	QTL4 (~3.92 - ~4.99)	HW sequence present in HW-phenotype strain <i>kyIR28</i> and absent in N2-phenotype strain <i>kyIR62</i> . Only defined by one line.
	Suppressor QTL5 (~1.04 - ~1.22)	Common HW sequence present in N2-phenotype strains that contain QTL2 (<i>kyIR69</i> , <i>kyIR66</i> , <i>kyIR42</i> , <i>kyIR71</i>).
	Suppressor QTL6 (~2.76 - ~4.99)	HW sequence present in N2-phenotype strain that contains QTL3 (<i>kyIR62</i>). Only defined by one line.
<i>ewIR</i> lines	QTL7 (~2.76 - ~3.35)	Common HW sequence present in HW-phenotype strains (<i>ewIR50</i> and <i>ewIR53</i>)
	QTL8 (~9.10 - ~13.68)	Common HW sequence present in HW-phenotype strains (<i>ewIR55</i> and <i>ewIR54</i>).
All lines	QTL2 (~0.79 - ~1.03)	Common HW sequence present in HW-phenotype strains (<i>kyIR76</i> and <i>kyIR74</i>) and absent in N2-phenotype strain (<i>kyIR54</i>).
	QTL3 (~2.29 - ~2.76)	Common HW sequence present in HW-phenotype strains (<i>kyIR67</i> , <i>kyIR68</i> , <i>kyIR75</i> , and <i>kyIR65</i>) and absent in N2-phenotype strains (<i>ewIR45</i> and <i>ewIR46</i>).
	QTL4 (~3.92 - ~4.99)	HW sequence present in HW-phenotype strain <i>kyIR28</i> and absent in N2-phenotype strains <i>kyIR62</i> and <i>ewIR47</i> . Only defined by one HW-phenotype strain.
	Suppressor QTL5 (~1.04 - ~1.22)	Common HW sequence present in N2-phenotype strains that contain QTL2 (<i>kyIR69</i> , <i>kyIR66</i> , <i>kyIR42</i> , <i>kyIR71</i> , <i>ewIR45</i> and <i>ewIR46</i>).
	Suppressor QTL6 (~2.76 - ~3.92)	Common HW sequence present in N2-phenotype strains that contain QTL3 (<i>ewIR47</i> and <i>kyIR62</i>).
	QTL7 (~2.76 - ~3.35)	Common HW sequence present in HW-phenotype strains (<i>ewIR53</i> and <i>kyIR73</i>)
	QTL8 (~9.10 - ~13.68)	HW sequence present in HW-phenotype strains <i>ewIR55</i> . Strain <i>ewIR54</i> not significant when analyzed with all lines, but is when analyzed with only <i>ewIR</i> lines.