

## File S1

### Supplemental Methods

#### ***C. elegans* Strains**

##### 'Wild-type' strains

<i>Strain</i>	<i>Origin</i>
N2	Bristol, England (FATT and DOUGHERTY 1963)
CB4856	Hawaii, USA (described in (HODGKIN and DONIACH 1997))
MY1	Lingen, Germany (HABER <i>et al.</i> 2005)
MY14	Mecklenbeck, Germany (HABER <i>et al.</i> 2005)
JU258	Madeira, Portugal (BARRIERE and FELIX 2005)

##### Chromosome substitution strains

WE5236 (CSSI), WE5237 (CSSII), WE5238 (CSSIII), WE5239 (CSSIV), WE5240 (CSSV), WE5241 (CSSX)

(GLAUSER *et al.* 2011).

##### N2-HW introgression lines

CX12004 (*kyIR54*), CX11561 (*kyIR26*), CX11562 (*kyIR32*), CX11564 (*kyIR27*), CX11879 (*kyIR38*), CX11881 (*kyIR40*), CX11900 (*kyIR42*), CX11901 (*kyIR28*), CX11905 (*kyIR46*), CX11930 (*kyIR48*), CX11931(*kyIR49*), CX11932 (*kyIR50*), CX11933 (*kyIR51*), CX11934 (*kyIR52*), CX12005 (*kyIR55*), CX12006 (*kyIR56*), CX12769 (*kyIR62*), CX12771 (*kyIR64*), CX12773 (*kyIR66*), CX12774 (*kyIR67*), CX12775 (*kyIR68*), CX12776 (*kyIR69*), CX12777 (*kyIR70*), CX12778 (*kyIR71*), CX12780 (*kyIR73*), CX12781 (*kyIR74*), CX12782 (*kyIR75*), CX12783 (*kyIR76*, QTL2, CX12983 *kyIR76* 2X backcrossed to N2), CX12772 (*kyIR65*), CX11563 (*kyIR33*),

##### N2-HW introgression lines (DOROSZUK *et al.* 2009)

*ewIR45*, *ewIR46*, *ewIR47*, *ewIR49*, *ewIR50*, *ewIR51*, *ewIR52*, *ewIR53* (QTL7, CX12986, *ewIR53* 2X backcrossed to N2), *ewIR54*, *ewIR55*, *ewIR56*, *ewIR58*, *ewIR60*, *ewIR61*, *ewIR62*, *ewIR64*, *ewIR65*, *ewIR66*, *ewIR67*, *ewIR68*, *ewIR69*, *ewIR70*, *ewIR71*(QTL9, CX12995, *ewIR71* 2X backcrossed to N2), *ewIR72*, *ewIR73*, *ewIR74*, *ewIR75*, *ewIR76*, *ewIR77*

### N2 and CB4856 Strain History

Bargmann Lab N2 animals were thawed from a frozen stock of N2 animals from the Horvitz Lab frozen down in 1986. Bargmann CB4856 animals were obtained from the CGC in 2007. These strains were rethawed approximately every 3 months. Starting N2 and CB4856 strains and RIAL lines were from Kruglyak lab. Strains were obtained and maintained as described in (ROCKMAN and KRUGLYAK 2009). Starting N2 and CB4856 strains and CSS lines were from Man-Wah Tan's lab. Starting N2 and CB4856 strains from Bargmann and Tan labs were tested and found to have non-significantly different *Serratia-E. coli* bacteria choice phenotypes.

### References

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