

Table S1. List of operon gains and losses identified in this work

Operons newly formed in the *C. elegans* lineage

The constituent genes are written in the order from 5' $\Rightarrow$ 3'. The constituent genes of the newly formed *C. elegans* operons that are linked (i.e., in the same direction and with intergenic distances <2 kb) in all of the other three *Caenorhabditis* species examined are shaded.

CEOP1008	<i>tol-1</i>	W04C9.4		
CEOP1100	Y47G6A.25	<i>mis-12</i>		
CEOP1104	<i>glh-4</i>	T12F5.2		
CEOP1156	<i>nab-1</i>	C43E11.5		
CEOP1200	<i>unc-57</i>	T04D1.2		
CEOP1204	<i>htp-3</i>	F57C9.4	F57C9.3	
CEOP1340	<i>mei-2</i>	<i>bag-1</i>		
CEOP1358	<i>ztf-4</i>	T10B11.2		
CEOP1372	<i>nhr-23</i>	C01H6.6		
CEOP1376	R06C7.2	C01H6.9		
CEOP1412	<i>rrf-1</i>	<i>ncbp-2</i>	F26A3.1	F29D11.2
CEOP1476	F10D11.2	F02E9.9	F02E9.10	F02E9.5
CEOP1580	<i>his-68</i>	T23D8.7		
CEOP1584	<i>npp-17</i>	F10G8.7	F10G8.6	F10G8.9
CEOP1682	<i>smu-1</i>	<i>Pmr-1</i>		
CEOP1770	<i>kin-1</i>	WBGene00014148		
CEOP1902	H27M09.3	H27M09.2	H27M09.1	
CEOP1940	Y48G1C.11	Y48G1C.9	Y48G1C.1	
CEOP1948	W03G9.3	W03G9.2		
CEOP2092	<i>bath-30</i>	<i>bath-28</i>	F14D2.15	
CEOP2248	<i>clec-88</i>	K10B2.2		
CEOP2368	<i>puf-5</i>	F54C9.9	<i>arl-1</i>	

CEOP2660	Y53F4B.20	Y53F4B.21	
CEOP2680	bath-29	F14D2.2	bath-27
CEOP2684	math-36	srh-195	
CEOP2695	Y57A10A.29	ife-5	
CEOP2708	F54A3.4	Y59C2A.3	
CEOP3168	evl-14	R10E4.9	
CEOP3572	cls-2	gst-1	
CEOP3614	C07A9.5	ugt-60	
CEOP3746	Y56A3A.30	ung-1	Y56A3A.28 top-3
CEOP3772	F56A8.1	F56A8.3	F56A8.4 F56A8.5
CEOP3784	nud-1	dro-1	ife-1 F53A2.7 Mtm-6
CEOP3792	T27E9.2	Abcf-2	cua-1 F45G2.10 F45G2.9 F45G2.8 F45G2.7
CEOP3822	pdr-1	mdt-29	3R5.1
CEOP3837	Y39E4A.3	ttm-1	
CEOP3842	K01G5.5	K01G5.3	
CEOP3847	R74.7	R74.8	
CEOP3850	K04H4.5	flp-25	
CEOP4012	pat-6	T21D12.3	
CEOP4036	F56B3.11	F56B3.12	skr-18
CEOP4052	F52C12.4	F52C12.3	F52C12.2 F52C12.1 ulp-3 Y48A5A.1 Y48A5A.3
CEOP4164	Y52D5A.1	rme-2	
CEOP4168	drp-1	T12E12.3	T12E12.2 T12E12.1
CEOP4296	hst-1	F08B4.7	F08B4.5
CEOP4310	C09G9.2	C09G9.1	
CEOP4440	F54E12.2	B0035.12	B0035.11
CEOP4524	efa-6	Y55D9A.2	
CEOP4572	tor-2	gei-18	
CEOP5156	C03G6.17	srsx-24	

CEOP5254	<i>K07C5.2</i>	<i>K07C5.3</i>
CEOP5332	<i>tag-348</i>	<i>srw-80</i>
CEOP5386	<i>F32H5.4</i>	<i>srg-46</i>
CEOP5496	<i>chk-2</i>	<i>frs-3</i> <i>gly-4</i>
CEOP5532	<i>his-74</i>	<i>W05B10.2</i>
CEOP5546	<i>F43H9.4</i>	<i>Oma-2</i>

Operons lost in *Caenorhabditis* species. The breakage point is shown by lines between constituent genes.

Operons lost solely in *C. briggsae*

CEOP1396	<i>WBGene00013994</i>	<i>lrs-2</i>
CEOP2040	<i>eri-3</i>	<i>taf-6.1</i>
CEOP2332	<i>T05H10.1</i>	<i>apn-1</i>
CEOP2520	<i>lsm-1</i>	<i>F40F8.1</i> <i>F40F8.3</i>
CEOP2600	<i>pisy-1</i>	<i>Y46G5A.4</i>
CEOP3416	<i>rpl-36</i>	<i>F37C12.3</i> <i>F37C12.2</i> <i>F37C12.1</i>
CEOP3504	<i>F10E9.11</i>	<i>sas-4</i>
CEOP3640	<i>ZK632.11</i>	<i>ZK632.12</i>
CEOP3764	<i>Y111B2A.2</i>	<i>Y111B2A.3</i> <i>Y111B2A.4</i>
CEOP3838	<i>Y82E9BR.19</i>	<i>Y82E9BR.18</i>
CEOP4156	<i>W03F8.10</i>	<i>W03F8.4</i> <i>W03F8.3</i>
CEOP4436	<i>B0035.18</i>	<i>B0035.6</i>
CEOP5012	<i>F33E11.6</i>	<i>F33E11.3</i>

Operons lost solely in *C. remanei*

CEOP1336	<i>tre-1</i>	<i>xpg-1</i>	<i>F57B10.5</i>
CEOP1400	<i>chs-1</i>	<i>T25G3.3</i>	<i>T25G3.4</i>
CEOP1927	<i>F28B3.5</i>	<i>acl-11</i>	
CEOP1929	<i>D1081.7</i>	<i>D1081.8</i>	
CEOP2016	<i>pqn-85</i>	<i>Y43H11AL.2</i>	<i>Y43H11AL.1</i>
CEOP3022	<i>Y50D7A.1</i>	<i>Y50D7A.10</i>	

CEOP3812	Y76A2B.6	Y76A2B.5	Y76A2B.4
CEOP4312	oma-1	spr-2	C27B7.2
CEOP4662	Y41E3.7	fcd-2	

Operons lost solely in *C. brenneri*

CEOP1272	F46F11.8	F46F11.10	
CEOP1276	F55F8.6	tag-345	cir-1 F55F8.3 F55F8.2
CEOP1772	dog-1	F33H2.6	
CEOP1942	Y71F9AR.2	Y71F9AR.4	
CEOP3224	F26A1.1	ced-4	C35D10.8 C35D10.7 C35D10.6
CEOP3716	rsa-2	W09D6.1	
CEOP4049	mdt-20	Y104H12D.3	
CEOP4544	Y62E10A.20	rab-19	Y62E10A.10
CEOPX016	W05H7.4	sedl-1	

Operons lost in *C. briggsae* and *C. remanei*

CEOP1950	Y53H1C.2	aat-9	
CEOP3075	phf-5	gip-1	
CEOP3780	Y43F4B.7	Y43F4B.10	Y43F4B.9

Operons lost in *C. briggsae* and *C. brenneri*

CEOP1268	cey-2	F46F11.7	
CEOP2032	thoc-1	T02H6.1	Y39F10B.1
CEOP4292	gei-9	C28C12.12	
CEOP4650	Y54G2A.37	clec-80	

Operons lost in *C. remanei* and *C. brenneri*

CEOP1952	F57B10.9	F57B10.8	T10E9.9
CEOP2640	R06A4.9	R06A4.2	
CEOPX128	sym-4	R03E1.2	