

Summary of models on the 5 taxa tree.

OrthoDB Group ^a	Gene ^b	Classification	Sites ^c	Global ω ¹	M8 vs M7 ²	Branch-site ³	Branch-site ⁴	Branch-site ⁵	Branch-site ⁶	Clade D ⁷
EOG6JSXPT	abaecin	AMP	N/A	N/A						
EOG6TDZ3C	defensin	AMP	92	0.17525						
EOG6C2FSC	atg1	Autophagy	471	0.12007					X	X
EOG644J2Q	atg10	Autophagy	N/A	N/A						
EOG6MGQPH	atg16L	Autophagy	159	0.09132						X
EOG6DR7V8	atg18	Autophagy	262	0.03276						
EOG69KD5B	atg2	Autophagy	1775	0.07692						
EOG6D2556	atg4A	Autophagy	431	0.04811						
EOG602V84	atg4B	Autophagy	337	0.05112						
EOG6P8DOV	atg5	Autophagy	261	0.0265						
EOG6WH726	atg6	Autophagy	430	0.01267					X	X
EOG6W9GKN	atg7	Autophagy	667	0.08185						X
EOG60001Z	atg8	Autophagy	117	0.02379						X
EOG6Q574K	atg9	Autophagy	809	0.07441						
EOG6NP5KW	buffy	Autophagy	253	0.04091						
EOG6PC86T	tor	Autophagy	2317	0.00972						X
EOG6XPNXB	basket	c-Jun N-terminal kinases	388	0.00469						
EOG680GDM	eiger	c-Jun N-terminal kinases	334	0.19204					X	X
EOG61893B	hemipterous	c-Jun N-terminal kinases	761	0.03714						
EOG6K3JCB	jra	c-Jun N-terminal kinases	196	0.01599						
EOG64B8HP	kayak	c-Jun N-terminal kinases	184	0.02866						X
EOG64QRG8	tak1	c-Jun N-terminal kinases	150	0.2218					X	X
EOG6N8PNJ	wengen	c-Jun N-terminal kinases	211	0.18343					X	X
EOG6FBG95	Clect-10	C-type lectin	155	0.14098						
EOG68W9HQ	Clect-8	C-type lectin	220	0.07941					X	X
EOG66WWRH-1	Clect-GA1	C-type lectin	211	0.02727						X
EOG66WWRH-2	Clect-GA2	C-type lectin	169	0.04701						X
EOG6W6MC0	Clect-GA3	C-type lectin	230	0.03912						X
EOG61VHHT	Clect-SE1	C-type lectin	852	0.03676					X	X
EOG6612JX	Clect-SE2	C-type lectin	788	0.05268						
EOG6VX0M3	ark	Caspase	1128	0.11986	X		X	X		
EOG62BVQX	caspase-L1	Caspase	344	0.15962						
EOG6F1VKC	ice	Caspase	238	0.09912						
EOG6Z8WBN	catalase	Catalase	181	0.1076			X			
EOG64B8H5	CLIP-A10	CLIP serine protease	792	0.1226	X					X
EOG6PRR5Q	CLIP-A30	CLIP serine protease	812	0.10612						X
EOG61NS2P	CLIP-A5	CLIP serine protease	N/A	N/A						
EOG6FJ6RD	CLIP-B13	CLIP serine protease	346	0.22864						X
EOG6QRFKP	CLIP-C1B	CLIP serine protease	330	0.24449	X					X
EOG6TX97G	CLIP-D1	CLIP serine protease	201	0.17348						
EOG6TX97R	CLIP-D1-like protein	CLIP serine protease	312	0.30094					X	X
EOG6GHX4B	CLIP-D10	CLIP serine protease	294	0.01051						
EOG6R7SS0	CLIP-D3	CLIP serine protease	298	0.08745					X	X
EOG680GC4	CLIP-D9	CLIP serine protease	405	0.10056						X
EOG6CRJF5	masquerade	CLIP serine protease	146	0.01809						X
EOG6RBP1C	persephone	CLIP serine protease	288	0.24712					X	X
EOG6RJDH9	scarface	CLIP serine protease	378	0.25097						
EOG6NCJV4	snake	CLIP serine protease	399	0.23339					X	X
EOG6HX3GG	stubble	CLIP serine protease	660	0.06449						X
EOG6N5TBN	galectin-3	Galectin	1280	0.04932						
EOG634TPR	galectin-5	Galectin	416	0.12109						X
EOG6RV16R-1	BGRP-1	GNBP	459	0.24922			X	X		
EOG6RV16R-2	BGRP-2	GNBP	234	0.18544					X	X
EOG69CNQ4-1	IAP-1A	IAP repeat	N/A	N/A						
EOG69CNQ4-2	IAP-1B	IAP repeat	N/A	N/A						
EOG6Q2BWQ	IAP-2	IAP repeat	503	0.1256					X	X
EOG6ZCRN2	IAP-5	IAP repeat	139	0.09978						
EOG61ZCRN	IAP-6	IAP repeat	2053	0.05545						X
EOG66T1GW	caspar	IMD pathway	597	0.04391						X
EOG6ZW3V0	fadd	IMD pathway	134	0.20183						
EOG6DV43B	immune deficiency	IMD pathway	249	0.13835				X		X
EOG64J10C	ird5	IMD pathway	343	0.18295					X	X
EOG679CP4	POSH	IMD pathway	852	0.05525					X	X
EOG66DJHX-2	dscam	Immunoglobulin	489	0.05362	X				X	X
EOG66DJHX-1	dscam-like protein	Immunoglobulin	1495	0.02775					X	X
EOG666T1W	domeless	JAK/STAT pathway	1435	0.1038			X		X	X
EOG6FN2ZK	hopscotch	JAK/STAT pathway	600	0.08975					X	X
EOG641NSQ	stat	JAK/STAT pathway	736	0.01591						X
EOG6FBG9K	npc2a	MD-2-related lipid recognition	138	0.16468					X	X
EOG6NVX30	npc2b	MD-2-related lipid recognition	127	0.16092						
EOG6QRFJX	draper	Nimrod	600	0.0648					X	X
EOG6ZPC96	nimrod-C2	Nimrod	N/A	N/A						
EOG6J3TZ2	cardinal	Peroxidase	1186	0.15252					X	X
EOG6KD521	chorion peroxidase	Peroxidase	352	0.03149					X	X
EOG6VX0M1-1	DBLOX	Peroxidase	932	0.04732						X
EOG6VX0M1-2	DBLOX-like protein	Peroxidase	502	0.11747						X
EOG6J9KDP	Duox	Peroxidase	1431	0.0144						
EOG6J6Q5V	peroxidasin	Peroxidase	1091	0.0514						X
EOG6XKSQD	peroxiredoxin-1	Peroxidase	208	0.06932						X
EOG693216-1	peroxiredoxin-4	Peroxidase	220	0.06951						
EOG693216-2	peroxiredoxin-5	Peroxidase	220	0.05698						
EOG60GB73-2	PHGPx2A	Peroxidase	166	0.03937						
EOG60GB73-1	PHGPx2B	Peroxidase	196	0.08592						X
EOG6VX0NG-1	PGRP-LF	PRGP	187	0.09501						X
EOG6VX0NG-3	PGRP-S1	PRGP	76	0.13791						
EOG6VX0NG-2	PGRP-S2	PRGP	111	0.14224						X
EOG6DFN3J	PPO-6	Prophenol oxidase	672	0.07601					X	X
EOG6VDNFR	dorsal	Relish	353	0.1068		X	X			X
EOG659ZWS	relish	Relish	609	0.10713					X	X
EOG634TN8	croquemort	Scavenger receptor	477	0.14923						X
EOG6JQ2CF	LOC100642575 (B. terr)	Scavenger receptor	744	0.07663						X
EOG608KPT	LOC100642932 (B. terr)	Scavenger receptor	1646	0.13449					X	X
EOG6D254M	SCR-AC1	Scavenger receptor	1650	0.06841						X
EOG6CNP6K-1	SCR-B3	Scavenger receptor	500	0.07891						
EOG6W0VV6	SCR-B5	Scavenger receptor	476	0.16861						
EOG6X3FGJ	SCR-B6	Scavenger receptor	438	0.15942					X	X
EOG6CNP6K-2	SCR-B9	Scavenger receptor	387	0.06656						X
EOG6HHMH6	serpin-23	Scavenger receptor	650	0.19767						
EOG6BG7B9	snmp1	Scavenger receptor	430	0.10943			X			X
EOG66Q57J	LOC100642902 (B. terr)	Serine protease inhibitor	1189	0.24741		X	X	X	X	X
EOG6XWDDG-1	serpin-10A	Serine protease inhibitor	375	0.16206					X	X
EOG6XWDDG-3	serpin-10B	Serine protease inhibitor	307	0.2028						
EOG6M37R0	serpin-27A	Serine protease inhibitor	N/A	N/A						
EOG6WDBSW	serpin-28D	Serine protease inhibitor	423	0.19085						X
EOG6XWDDG-2	serpin-9	Serine protease inhibitor	337	0.11636						
EOG6NVX17	argonaute-1	Small RNA regulatory pathway members	813	0.01837						X
EOG6KNVHX	argonaute-2	Small RNA regulatory pathway members	810	0.22158	X	X	X			X
EOG62Z354	argonaute-3	Small RNA regulatory pathway members	743	0.11048					X	
EOG62547K	armitage	Small RNA regulatory pathway members	996	0.09973					X	X
EOG66DJHQ	aubergine	Small RNA regulatory pathway members	644	0.17942					X	X
EOG6W3R35	belle	Small RNA regulatory pathway members	647	0.04838						
EOG6TTDZQ	dicer-1	Small RNA regulatory pathway members	1846	0.05742						X
EOG634TMX	dicer-2	Small RNA regulatory pathway members	1269	0.13311					X	X
EOG634TN0	drosha	Small RNA regulatory pathway members	1290	0.03406				X		
EOG6KKWJ6	fmr1	Small RNA regulatory pathway members	343	0.02706						
EOG6ZCRKS	loquacious	Small RNA regulatory pathway members	332	0.07531						
EOG6GXD37	pasha	Small RNA regulatory pathway members	369	0.0386						X
EOG6RJJDHD	r2d2	Small RNA regulatory pathway members	325	0.20087						X
EOG69W0XF	ran	Small RNA regulatory pathway members	127	0.00899						X
EOG634TMW	ranbp-21	Small RNA regulatory pathway members	1213	0.02043						X
EOG6612K2	rm62-A	Small RNA regulatory pathway members	726	0.01941						X
EOG6W9GK1-3	rm62-B1	Small RNA regulatory pathway members	405	0.02174						X
EOG6XWDCW	rm62-C	Small RNA regulatory pathway members	492	0.0699				X		
EOG6ZPC9T	rm62-F	Small RNA regulatory pathway members	545	0.09114			X			X
EOG6W9GK1-2	rm62-H	Small RNA regulatory pathway members	482	0.01533						
EOG6VX0M4	rm62-I	Small RNA regulatory pathway members	712	0.00638						
EOG6W9GK1-1	rm62-J	Small RNA regulatory pathway members	678	0.02782						X
EOG6W9GK1-4	rm62-J1	Small RNA regulatory pathway members	353	0.037						
EOG6BG79T	spindle-E	Small RNA regulatory pathway members	1268	0.11096						X
EOG6X3FG7	tudor-SN	Small RNA regulatory pathway members	772	0.02586						
EOG6KWH93	vig	Small RNA regulatory pathway members	411	0.05636						X
EOG6QNKCB	spatzle-1B	Spatzle	N/A	N/A						
EOG61C5BT	spatzle-3	Spatzle	393	0.06832						X
EOG679CPZ	spatzle-5	Spatzle	222	0.12895						X
EOG6TTF0B	spatzle-6	Spatzle	385	0.03401					X	X
EOG68SF83	tep23	Thioester-containing protein	N/A	N/A						
EOG6X0K76	tep3	Thioester-containing protein	301	0.0597					X	X
EOG6X95Z0	tepA	Thioester-containing protein	1559	0.04577						
EOG6K6DKF	cactin	Toll pathway	559	0.03088						X
EOG6RBP1B	cactus	Toll pathway	356	0.17196						X
EOG6X0K8Q	myd88	Toll pathway	209	0.10847			X		X	X
EOG6T1G2P	pelle	Toll pathway	381	0.11016						
EOG634TNR	pellino	Toll pathway	428	0.01095						
EOG64F4RN	traf6	Toll pathway	363	0.10241						
EOG6866VT	tube	Toll pathway	88	0.11664					X	X
EOG6HDR8C	TLR-1	Toll receptor	376	0.25801						X
EOG6931ZS-2	TLR-10	Toll receptor	1204	0.03589						X
EOG6931ZS-3	TLR-6	Toll receptor	1217	0.03869						X
EOG6931ZS-1	TLR-7	Toll receptor	1299	0.02839			X			X
EOG6931ZS-4	TLR-8	Toll receptor	1177	0.01807						

^a Group identifiers are from OrthoDB 6 (<http://cegg.unige.ch/orthodb6>).^b Unless otherwise specified, gene names are taken from the *A. mellifera* or *D. melanogaster* orthologs.^c Total number of codons in the alignment after trimming with Gblocks.¹ Across