

## Additional Table 4

### Protein sequences for Additional Figure 4 (phylogeny of the caspase family)

Abbreviation	Source and identifier
CASP1_HUMAN	SWISS-PROT: P29466 CASP1_HUMAN
CASP2_HUMAN	SWISS-PROT: P42575 CASP2_HUMAN
CASP3_HUMAN	SWISS-PROT: P42574 CASP3_HUMAN
CASP4_HUMAN	SWISS-PROT: P49662 CASP4_HUMAN
CASP5_HUMAN	SWISS-PROT: P51878 CASP5_HUMAN
CASP6_HUMAN	SWISS-PROT: P55212 CASP6_HUMAN
CASP7_HUMAN	SWISS-PROT: P55210 CASP7_HUMAN
CASP8_HUMAN	SWISS-PROT: Q14790 CASP8_HUMAN
CASP9_HUMAN	SWISS-PROT: P55211 CASP9_HUMAN
CASP10_HUMAN	SWISS-PROT: Q92851 CASPA_HUMAN
CASP14_HUMAN	SWISS-PROT: P31944 CASPE_HUMAN
MALT1_HUMAN p	SWISS-PROT: Q9UDY8 MALT1_HUMAN
CFLAR_HUMAN	SWISS-PROT: O15519 CFLAR_HUMAN
CASP12_HUMAN	SWISS-PROT: Q6UXS9 Q6UXS9_HUMAN
14_BRAFL	JGI Branchiostoma floridae v1.0: e_gw.281.109.1
15_BRAFL	JGI Branchiostoma floridae v1.0: e_gw.289.46.1
16_BRAFL	JGI Branchiostoma floridae v1.0: e_gw.317.50.1
17_BRAFL	JGI Branchiostoma floridae v1.0: e_gw.323.60.1
18_BRAFL	JGI Branchiostoma floridae v1.0: e_gw.38.32.1
19_BRAFL	JGI Branchiostoma floridae v1.0: e_gw.41.74.1
20_BRAFL	JGI Branchiostoma floridae v1.0: e_gw.440.22.1
21_BRAFL	JGI Branchiostoma floridae v1.0: e_gw.457.27.1
22_BRAFL	JGI Branchiostoma floridae v1.0: e_gw.558.40.1
23_BRAFL	JGI Branchiostoma floridae v1.0: e_gw.58.117.1
24_BRAFL	JGI Branchiostoma floridae v1.0: e_gw.58.143.1
25_BRAFL	JGI Branchiostoma floridae v1.0: e_gw.624.12.1
26_BRAFL	JGI Branchiostoma floridae v1.0: e_gw.752.1.1
27_BRAFL	JGI Branchiostoma floridae v1.0: e_gw.79.62.1
28_BRAFL	JGI Branchiostoma floridae v1.0: e_gw.87.121.1
29_BRAFL	JGI Branchiostoma floridae v1.0: estExt_fgenesh2_pg.C_1570004
30_BRAFL	JGI Branchiostoma floridae v1.0: estExt_fgenesh2_pg.C_570070
31_BRAFL	JGI Branchiostoma floridae v1.0: estExt_gwp.C_380044
32_BRAFL	JGI Branchiostoma floridae v1.0: estExt_gwp.C_5310019
33_BRAFL	JGI Branchiostoma floridae v1.0: fgenesh2_kg.scaffold_76000001
34_BRAFL	JGI Branchiostoma floridae v1.0: fgenesh2_pg.scaffold_106000101
35_BRAFL	JGI Branchiostoma floridae v1.0: fgenesh2_pg.scaffold_11000166
36_BRAFL	JGI Branchiostoma floridae v1.0: fgenesh2_pg.scaffold_114000007
37_BRAFL	JGI Branchiostoma floridae v1.0: fgenesh2_pg.scaffold_116000092
38_BRAFL	JGI Branchiostoma floridae v1.0: fgenesh2_pg.scaffold_12000073
39_BRAFL	JGI Branchiostoma floridae v1.0: fgenesh2_pg.scaffold_128000077
40_BRAFL	JGI Branchiostoma floridae v1.0: fgenesh2_pg.scaffold_14000081
41_BRAFL	JGI Branchiostoma floridae v1.0: fgenesh2_pg.scaffold_14000189
42_BRAFL	JGI Branchiostoma floridae v1.0: fgenesh2_pg.scaffold_163000014
43_BRAFL	JGI Branchiostoma floridae v1.0: fgenesh2_pg.scaffold_17000032
44_BRAFL	JGI Branchiostoma floridae v1.0: fgenesh2_pg.scaffold_179000014
45_BRAFL	JGI Branchiostoma floridae v1.0: fgenesh2_pg.scaffold_189000062
46_BRAFL	JGI Branchiostoma floridae v1.0: fgenesh2_pg.scaffold_206000012
47_BRAFL	JGI Branchiostoma floridae v1.0: fgenesh2_pg.scaffold_224000042
48_BRAFL	JGI Branchiostoma floridae v1.0: fgenesh2_pg.scaffold_257000041
49_BRAFL	JGI Branchiostoma floridae v1.0: fgenesh2_pg.scaffold_266000032
50_BRAFL	JGI Branchiostoma floridae v1.0: fgenesh2_pg.scaffold_440000013
51_BRAFL	JGI Branchiostoma floridae v1.0: fgenesh2_pg.scaffold_44000123
52_BRAFL	JGI Branchiostoma floridae v1.0: fgenesh2_pg.scaffold_505000011
53_BRAFL	JGI Branchiostoma floridae v1.0: fgenesh2_pg.scaffold_505000014
54_BRAFL	JGI Branchiostoma floridae v1.0: fgenesh2_pg.scaffold_55000086
55_BRAFL	JGI Branchiostoma floridae v1.0: fgenesh2_pg.scaffold_58000144
56_BRAFL	JGI Branchiostoma floridae v1.0: fgenesh2_pg.scaffold_85000001
57_BRAFL	JGI Branchiostoma floridae v1.0: fgenesh2_pg.scaffold_96000010
58_BRAFL	JGI Branchiostoma floridae v1.0: gw.24.194.1 scaffold_24
59_BRAFL	JGI Branchiostoma floridae v1.0: gw.3.308.1 scaffold_3
60_BRAFL	JGI Branchiostoma floridae v1.0: gw.41.75.1 scaffold_41
61_BRAFL	JGI Branchiostoma floridae v1.0: gw.457.36.1 scaffold_457
62_BRAFL	JGI Branchiostoma floridae v1.0: gw.5.697.1 scaffold_5
63_BRAFL	JGI Branchiostoma floridae v1.0: gw.527.30.1 scaffold_527
64_BRAFL	JGI Branchiostoma floridae v1.0: gw.531.4.1 scaffold_531

65_BRAFL*	JGI Branchiostoma floridae v1.0: gw.752.6.1 scaffold_752
66_BRAFL	JGI Branchiostoma floridae v1.0: gw.97.227.1 scaffold_97
67_CAEEL p	Ensembl release_38 pep.abinitio: SNAP00000012440 U28993.2
CED3_CAEEL	Ensembl release_38 pep.abinitio: SNAP00000017192 Z81049.1
CSP3_CAEEL	Ensembl release_38 pep.abinitio: SNAP00000020500 AL032657.1
CSP2_CAEEL	Ensembl release_38 pep.abinitio: SNAP00000037670 AC084197.1
CSP1_CAEEL	Ensembl release_38 pep.abinitio: SNAP00000039230 Z93393.2
72_CHICK	Ensembl release_38 pep.abinitio: GENSCAN00000017364 Contig150.9
73_CHICK	Ensembl release_38 pep.abinitio: GENSCAN00000028400 Contig19.506
74_CHICK	Ensembl release_38 pep.abinitio: GENSCAN000000031849 Contig22.130
75_CHICK	Ensembl release_38 pep.abinitio: GENSCAN00000037777 Contig3.1036
76_CHICK	Ensembl release_38 pep.abinitio: GENSCAN00000038708 Contig75.50
77_CHICK	Ensembl release_38 pep.abinitio: GENSCAN00000038723 Contig75.50
78_CHICK	Ensembl release_38 pep.abinitio: GENSCAN00000038726 Contig75.50
79_CHICK	Ensembl release_38 pep.abinitio: GENSCAN00000038728 Contig75.50
80_CHICK p	Ensembl release_38 pep.abinitio: GENSCAN00000043145 Contig106.83
81_CHICK	Ensembl release_38 pep.abinitio: GENSCAN00000062140 Contig3.422
82_CHICK*	Ensembl release_38 pep.abinitio: GENSCAN00000064390 Contig184.95
83_CHICK*	Ensembl release_38 pep.abinitio: GENSCAN00000070643 Contig184.94
84_CHICK	Ensembl release_38 pep.abinitio: GENSCAN00000071772 Contig1601.9
85_CIOIN	Ensembl release_38 pep.abinitio: FGENESH00000070934 12q_24
86_CIOIN	Ensembl release_38 pep.abinitio: GENFINDER00000089975 12q_245
87_CIOIN	Ensembl release_38 pep.abinitio: GENSCAN00000077382 12p_145
88_CIOIN	Ensembl release_38 pep.abinitio: GENSCAN00000078600 8q_205
89_CIOIN	Ensembl release_38 pep.abinitio: GENSCAN00000080393 12q_223
90_CIOIN	Ensembl release_38 pep.abinitio: GENSCAN00000080400 12q_219
91_CIOIN	Ensembl release_38 pep.abinitio: GENSCAN00000088212 scaffold_180_7
92_CIOIN	Ensembl release_38 pep.abinitio: GENSCAN00000091551 8q_418
93_CIOIN*	Ensembl release_38 pep.abinitio: GENSCAN00000091653 6q_75
94_CIOIN	Ensembl release_38 pep.abinitio: GENSCAN00000102076 4q_272
95_CIOIN	Ensembl release_38 pep.abinitio: SNAP_CIONA00000044087 12q_220
110_CANFA	Ensembl release_38 pep.abinitio: GENSCAN00000003002 contig_48336.1.38164
111_CANFA p	Ensembl release_38 pep.abinitio: GENSCAN00000020890 contig_14601.1.99562
112_CANFA	Ensembl release_38 pep.abinitio: GENSCAN00000022553 contig_16054.1.355264
113_CANFA	Ensembl release_38 pep.abinitio: GENSCAN00000027274 contig_38046.1.61723
114_CANFA	Ensembl release_38 pep.abinitio: GENSCAN00000030806 contig_44577.1.10789
115_CANFA	Ensembl release_38 pep.abinitio: GENSCAN00000044240 contig_45483.1.101664
116_CANFA	Ensembl release_38 pep.abinitio: GENSCAN00000044314 contig_23073.1.2928
117_CANFA	Ensembl release_38 pep.abinitio: GENSCAN00000049145 contig_54810.1.318000
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121_CANFA	Ensembl release_38 pep.abinitio: GENSCAN00000075637 contig_55271.1.46482
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DAMM_DROME	Ensembl release_38 pep.abinitio: GENSCAN00000016500 2R_148
Strica_DROME	Ensembl release_38 pep.abinitio: GENSCAN00000005714 2R_31
Dcp1_DROME	Ensembl release_38 pep.abinitio: GENSCAN00000010154 2R_382
Dronc_DROME	Ensembl release_38 pep.abinitio: GENSCAN00000003674 3L_199
Decay_DROME	Ensembl release_38 pep.abinitio: GENSCAN00000003643 3R_247
drICE_DROME	Ensembl release_38 pep.abinitio: GENSCAN00000014490 3R_513
DREDD_DROME	Ensembl release_38 pep.abinitio: GENSCAN00000016383 X_10
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135_FUGRU	Ensembl release_38 pep.abinitio: GENSCANSLICE00000015664 scaffold_100
136_FUGRU p	Ensembl release_38 pep.abinitio: GENSCANSLICE00000017185 scaffold_4
137_FUGRU p	Ensembl release_38 pep.abinitio: GENSCANSLICE00000019238 scaffold_135
138_FUGRU	Ensembl release_38 pep.abinitio: GENSCANSLICE00000020903 scaffold_263
139_FUGRU p	Ensembl release_38 pep.abinitio: GENSCANSLICE00000021754 scaffold_217
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141_FUGRU	Ensembl release_38 pep.abinitio: GENSCANSLICE00000028088 scaffold_9
142_FUGRU	Ensembl release_38 pep.abinitio: GENSCANSLICE00000028892 scaffold_81
143_FUGRU	Ensembl release_38 pep.abinitio: GENSCANSLICE00000029213 scaffold_17
144_MOUSE	Ensembl release_38 pep.abinitio: GENSCAN00000154690 AC112968.11
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146_MOUSE	Ensembl release_38 pep.abinitio: GENSCAN00000169177 AL928577.21
147_MOUSE	Ensembl release_38 pep.abinitio: GENSCAN00000170756 AC119267.8
148_MOUSE*	Ensembl release_38 pep.abinitio: GENSCAN00000181320 CAAA01088007.1
149_MOUSE	Ensembl release_38 pep.abinitio: GENSCAN00000191566 AC141637.3
150_MOUSE	Ensembl release_38 pep.abinitio: GENSCAN00000196011 AC159747.8
151_MOUSE	Ensembl release_38 pep.abinitio: GENSCAN00000211658 AC118620.10

152\_MOUSE p Ensembl release\_38 pep.abinitio: GENSCAN00000218568 AC102240.12  
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154\_TETNG\* Ensembl release\_38 pep.abinitio: GIDT00022814001 SCAF15004  
155\_TETNG Ensembl release\_38 pep.abinitio: GSCT00000593001 SCAF14542  
156\_TETNG Ensembl release\_38 pep.abinitio: GSCT00000759001 SCAF14543  
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158\_TETNG p Ensembl release\_38 pep.abinitio: GSCT00005619001 SCAF14995  
159\_TETNG p Ensembl release\_38 pep.abinitio: GSCT00005723001 SCAF14996  
160\_TETNG\* Ensembl release\_38 pep.abinitio: GSCT00006606001 SCAF15004  
161\_TETNG Ensembl release\_38 pep.abinitio: GSCT00007603001 SCAF15038  
162\_TETNG p Ensembl release\_38 pep.abinitio: GSCT00008343001 SCAF15122  
163\_TETNG Ensembl release\_38 pep.abinitio: GSCT00009329001 SCAF15010  
164\_TETNG\* Ensembl release\_38 pep.abinitio: GSCT00011521001 SCAF14157  
165\_TETNG Ensembl release\_38 pep.abinitio: GWSST00003280001 SCAF14485  
166\_TETNG Ensembl release\_38 pep.abinitio: GWSST00015337001 SCAF15106  
167\_XENTR Ensembl release\_38 pep.abinitio: FGENESH00000087096 scaffold\_90  
168\_XENTR p Ensembl release\_38 pep.abinitio: GENSCAN00000011636 scaffold\_103  
169\_XENTR Ensembl release\_38 pep.abinitio: GENSCAN00000013067 scaffold\_89  
170\_XENTR Ensembl release\_38 pep.abinitio: GENSCAN00000034007 scaffold\_736  
171\_XENTR p Ensembl release\_38 pep.abinitio: GENSCAN00000037477 scaffold\_228  
172\_XENTR Ensembl release\_38 pep.abinitio: GENSCAN00000038004 scaffold\_90  
173\_XENTR Ensembl release\_38 pep.abinitio: GENSCAN00000039972 scaffold\_135  
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175\_XENTR Ensembl release\_38 pep.abinitio: GENSCAN00000055664 scaffold\_218  
176\_XENTR Ensembl release\_38 pep.abinitio: GENSCAN00000055667 scaffold\_218  
177\_XENTR Ensembl release\_38 pep.abinitio: GENSCAN00000066282 scaffold\_1113  
178\_XENTR Ensembl release\_38 pep.abinitio: GENSCAN00000068240 scaffold\_30  
179\_XENTR Ensembl release\_38 pep.abinitio: GENSCAN00000074022 scaffold\_1474  
180\_BRARE\* Ensembl release\_38 pep.abinitio: FGENESH00000074106 Zv5\_NA4522.1  
181\_BRARE Ensembl release\_38 pep.abinitio: GENSCAN00000002628 Zv5\_scaffold449.1  
182\_BRARE Ensembl release\_38 pep.abinitio: GENSCAN00000004209 Zv5\_scaffold1510.1  
183\_BRARE Ensembl release\_38 pep.abinitio: GENSCAN00000004413 BX005348.9.1-145299  
184\_BRARE Ensembl release\_38 pep.abinitio: GENSCAN00000004425 BX323548.11.1-229237  
185\_BRARE Ensembl release\_38 pep.abinitio: GENSCAN00000010360 BX649388.7.1-177865  
186\_BRARE Ensembl release\_38 pep.abinitio: GENSCAN00000010681 BX537280.12.1-163151  
187\_BRARE p Ensembl release\_38 pep.abinitio: GENSCAN00000013724 AL935332.12.2001-  
188\_BRARE Ensembl release\_38 pep.abinitio: GENSCAN00000020009 Zv5\_scaffold816.8  
189\_BRARE Ensembl release\_38 pep.abinitio: GENSCAN00000024545 Zv5\_NA4522.1  
190\_BRARE Ensembl release\_38 pep.abinitio: GENSCAN00000024624 Zv5\_scaffold1161.3  
191\_BRARE Ensembl release\_38 pep.abinitio: GENSCAN00000027488 Zv5\_scaffold66.3  
192\_BRARE Ensembl release\_38 pep.abinitio: GENSCAN00000028136 Zv5\_scaffold1016.17  
193\_BRARE p Ensembl release\_38 pep.abinitio: GENSCAN00000029654 Zv5\_scaffold1233.1  
194\_BRARE Ensembl release\_38 pep.abinitio: GENSCAN00000031927 BX005142.4.2001-  
195\_BRARE p Ensembl release\_38 pep.abinitio: GENSCAN00000034621 BX323550.13.1-200031  
196\_BRARE p Ensembl release\_38 pep.abinitio: GENSCAN00000034633 Zv5\_scaffold1096.18  
197\_BRARE Ensembl release\_38 pep.abinitio: GENSCAN00000035392 BX469930.13.2001-  
198\_BRARE Ensembl release\_38 pep.abinitio: GENSCAN00000036728 AL929213.5.1-169897  
199\_BRARE Ensembl release\_38 pep.abinitio: GENSCAN00000037707 Zv5\_scaffold340.4  
200\_BRARE Ensembl release\_38 pep.abinitio: GENSCAN00000042057 Zv5\_scaffold819.2  
201\_NEMVE JGI Nematostella vectensis v1.0: e\_gw.224.21.1  
202\_NEMVE JGI Nematostella vectensis v1.0: e\_gw.360.15.1  
203\_NEMVE JGI Nematostella vectensis v1.0: e\_gw.384.21.1  
204\_NEMVE JGI Nematostella vectensis v1.0: e\_gw.57.87.1  
205\_NEMVE JGI Nematostella vectensis v1.0: e\_gw.98.208.1  
206\_NEMVE JGI Nematostella vectensis v1.0: estExt\_fgenes1\_pm.C\_660002  
207\_NEMVE JGI Nematostella vectensis v1.0: estExt\_fgenes1\_pm.C\_740006  
208\_NEMVE JGI Nematostella vectensis v1.0: estExt\_gwp.C\_4180040  
209\_NEMVE p JGI Nematostella vectensis v1.0: fgenes1\_pg.scaffold\_140000023 scaffold\_140  
210\_NEMVE JGI Nematostella vectensis v1.0: gw.158.70.1  
211\_STRPU\* HGSC Spur\_v2.0: Scaffold\_v2\_102470\_genscan\_1  
212\_STRPU HGSC Spur\_v2.0: Scaffold\_v2\_10454\_genscan\_2  
213\_STRPU HGSC Spur\_v2.0: Scaffold\_v2\_11300\_genscan\_7  
214\_STRPU HGSC Spur\_v2.0: Scaffold\_v2\_11320\_genscan\_2  
215\_STRPU HGSC Spur\_v2.0: Scaffold\_v2\_17921\_genscan\_1  
216\_STRPU HGSC Spur\_v2.0: Scaffold\_v2\_22981\_genscan\_2  
217\_STRPU HGSC Spur\_v2.0: Scaffold\_v2\_22981\_genscan\_4  
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220\_STRPU\* HGSC Spur\_v2.0: Scaffold\_v2\_23814\_genscan\_1  
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223\_STRPU HGSC Spur\_v2.0: Scaffold\_v2\_27169\_genscan\_1  
224\_STRPU HGSC Spur\_v2.0: Scaffold\_v2\_28078\_genscan\_24

225_STRPU	HGSC Spur_v2.0: Scaffold_v2_28078_genscan_27
226_STRPU	HGSC Spur_v2.0: Scaffold_v2_28115_genscan_1
227_STRPU	HGSC Spur_v2.0: Scaffold_v2_29819_genscan_1
228_STRPU*	HGSC Spur_v2.0: Scaffold_v2_3438_genscan_6
229_STRPU	HGSC Spur_v2.0: Scaffold_v2_35424_genscan_9
230_STRPU	HGSC Spur_v2.0: Scaffold_v2_38293_genscan_1
231_STRPU	HGSC Spur_v2.0: Scaffold_v2_4297_genscan_1
232_STRPU	HGSC Spur_v2.0: Scaffold_v2_4297_genscan_3
233_STRPU	HGSC Spur_v2.0: Scaffold_v2_43352_genscan_2
234_STRPU	HGSC Spur_v2.0: Scaffold_v2_4343_genscan_3
235_STRPU	HGSC Spur_v2.0: Scaffold_v2_4343_genscan_4
236_STRPU*	HGSC Spur_v2.0: Scaffold_v2_4979_genscan_4
237_STRPU	HGSC Spur_v2.0: Scaffold_v2_50167_genscan_2
238_STRPU	HGSC Spur_v2.0: Scaffold_v2_50936_genscan_1
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240_STRPU	HGSC Spur_v2.0: Scaffold_v2_59540_genscan_13
241_STRPU	HGSC Spur_v2.0: Scaffold_v2_61322_genscan_2
242_STRPU	HGSC Spur_v2.0: Scaffold_v2_6185_genscan_1
243_STRPU	HGSC Spur_v2.0: Scaffold_v2_63743_genscan_1
244_STRPU <b>p</b>	HGSC Spur_v2.0: Scaffold_v2_65983_genscan_1
245_STRPU	HGSC Spur_v2.0: Scaffold_v2_68537_genscan_1
246_STRPU*	HGSC Spur_v2.0: Scaffold_v2_69977_genscan_1
247_STRPU	HGSC Spur_v2.0: Scaffold_v2_70603_genscan_1
248_STRPU*	HGSC Spur_v2.0: Scaffold_v2_83186_genscan_19
249_STRPU	HGSC Spur_v2.0: Scaffold_v2_83903_genscan_16
250_STRPU	HGSC Spur_v2.0: Scaffold_v2_86595_genscan_2
251_STRPU*	HGSC Spur_v2.0: Scaffold_v2_86851_genscan_1
252_STRPU*	HGSC Spur_v2.0: Scaffold_v2_96440_genscan_1

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\*These 18 sequences are not shown in shown in Additional Figure 4 because they match the Peptidase\_C14 Is HMM (Pfam 21.0) with an E-value larger than 0.1 and/or because the match length is less than 100aa.

**p:** These (19) para-caspase sequences are not shown in shown in Additional Figure 4.