

Table S4.2. 211 gene models from the *Ae. albopictus* diapause transcriptome that are represented in the gene expansion family.

Diapause transcriptome reference	Gene description	Genomic CDS reference
AAEL000007	conserved hypothetical protein	CCG009939.1, CCG009945.1, CCG021623.1, CCG024312.1
AAEL000099	Clip-Domain Serine Protease family B.	CCG020502.1
AAEL000188	elongase, putative	CCG019579.1
AAEL000261	hypothetical protein	CCG013550.1
AAEL000287	hypothetical protein	CCG013552.1
AAEL000292	conserved hypothetical protein	CCG013549.1
AAEL000299	hypothetical protein	CCG013553.1
AAEL000336	conserved hypothetical protein	CCG010918.1, CCG010919.1, CCG011892.1, CCG011893.1
AAEL000419	conserved hypothetical protein	CCG002530.1
AAEL000420	cathepsin o	CCG020610.1
AAEL000541	fasciclin, putative	CCG012447.2, CCG016230.1
AAEL000554	fasciclin, putative	CCG015006.1, CCG016229.1, CCG022321.1, CCG022322.1
AAEL000636	conserved hypothetical protein	CCG002987.1, CCG013452.1
AAEL000715	zinc finger protein	CCG013148.1
AAEL000753	conserved hypothetical protein	CCG004957.1
AAEL000974	zinc finger protein	CCG002267.1, CCG007463.1
AAEL000980	hypothetical protein	CCG023427.1
AAEL001008	conserved hypothetical protein	CCG020143.1
AAEL001016	zinc finger protein	CCG002533.1
AAEL001082	conserved hypothetical protein	CCG007565.1, CCG015422.1
AAEL001111	EST aligned to AAEL018173	CCG015416.1
AAEL001121	n-acetylgalactosaminyltransferase	CCG003355.1, CCG015467.1
AAEL001146	n-acetylgalactosaminyltransferase	CCG015470.1
AAEL001151	n-acetylgalactosaminyltransferase	CCG015471.1, CCG018437.1
AAEL001301	conserved hypothetical protein	CCG003565.1, CCG005976.1
AAEL001304	nuclear hormone receptor ftz-fl beta	CCG011519.1, CCG012009.1, CCG013278.1
AAEL001307	SEC14, putative	CCG003566.1, CCG003567.2, CCG005974.1, CCG005975.1

AAEL001352	scaffold attachment factor b	CCG012575.1, CCG013662.1, CCG014764.2, CCG024335.1
AAEL001700	hypothetical protein	CCG003841.1, CCG003844.1, CCG008165.1
AAEL001738	MRAS2, putative	CCG009607.1, CCG014434.1
AAEL001761	exonuclease	CCG018743.1, CCG019573.1
AAEL001901	MRAS2, putative	CCG013548.1
AAEL001916	eukaryotic translation initiation factor 4e	CCG013960.1, CCG019224.1
AAEL001937	selenium-binding protein	CCG003792.1, CCG008461.1
AAEL001957	conserved hypothetical protein	CCG017541.1
AAEL001981	protein serine/threonine kinase, putative	CCG012930.1, CCG012936.1, CCG012937.1, CCG012940.1, CCG013842.1, CCG013844.1, CCG015121.1, CCG015123.1, CCG017533.1, CCG017534.1, CCG017537.1
AAEL002004	protein serine/threonine kinase, putative	CCG012918.1, CCG012919.1, CCG012920.1, CCG012921.1, CCG012923.1, CCG012924.1, CCG012925.1, CCG012926.1, CCG012927.1, CCG012928.1, CCG012929.1, CCG012931.1, CCG012932.1, CCG012933.1, CCG012942.1, CCG013843.1, CCG013847.1, CCG013848.1, CCG015111.1, CCG015112.1, CCG015113.1, CCG015114.1, CCG015115.1, CCG015116.1, CCG015117.1, CCG015118.1, CCG015119.1, CCG015120.1, CCG015122.1, CCG015124.1, CCG017539.1
AAEL002047	40S ribosomal protein S10	CCG001763.1, CCG020333.1
AAEL002151	conserved hypothetical protein	CCG003715.1, CCG020606.1
AAEL002196	procathepsin L3, putative	CCG004919.1
AAEL002258	conserved hypothetical protein	CCG017946.1
AAEL002282	zinc finger protein	CCG027275.1
AAEL002330	conserved hypothetical protein	CCG017196.2
AAEL002397	conserved hypothetical protein	CCG025651.1
AAEL002444	zinc finger protein	CCG003716.1, CCG020605.1
AAEL002514	hypothetical protein	CCG011166.1, CCG011168.2, CCG023137.1, CCG023139.1
AAEL002661	matrix metalloproteinase	CCG024705.1

AAEL002665	matrix metalloproteinase	CCG002176.1, CCG004660.1, CCG006120.1, CCG006121.1, CCG006964.1, CCG007034.1, CCG008266.1, CCG016171.1, CCG016173.1, CCG016174.1
AAEL002672	matrix metalloproteinase	CCG016172.1, CCG016175.1
AAEL002725	conserved hypothetical protein	CCG012503.1
AAEL002833	cathepsin 1	CCG001031.1, CCG001032.1, CCG001500.1, CCG023928.1, CCG027026.1
AAEL003030	hypothetical protein	CCG006529.1, CCG017995.1
AAEL003309	alkaline phosphatase	CCG016852.1, CCG022132.1
AAEL003313	alkaline phosphatase	CCG016851.1, CCG022128.1, CCG022131.1, CCG023735.1
AAEL003427	40S ribosomal protein S16	CCG000058.1, CCG001848.1, CCG004298.1, CCG010049.1, CCG020780.1
AAEL003444	caspase (Short)	CCG021236.1
AAEL003471	hypothetical protein	CCG009385.1, CCG025115.1
AAEL003484	hypothetical protein	CCG009384.1, CCG025116.1
AAEL003614	Clip-Domain Serine Protease family B.	CCG009844.1, CCG009845.1, CCG013180.1, CCG013181.1
AAEL003625	Clip-Domain Serine Protease family B.	CCG002695.1, CCG009843.1, CCG009846.1, CCG013179.1, CCG013182.1, CCG013183.1
AAEL003805	EST aligned to AAEL018173	CCG019437.1
AAEL003889	Gram-Negative Binding Protein (GNBP) or Beta-1 3-Glucan Binding Protein (BGBP).	CCG004745.1
AAEL003914	calcium/calmodulin-dependent serine protein kinase membrane-associated guanylate kinase (cask)	CCG008555.1, CCG026561.1
AAEL003953	map/microtubule affinity-regulating kinase 2,4	CCG007002.1
AAEL003976	conserved hypothetical protein	CCG006209.1, CCG006211.1, CCG006686.1, CCG018324.1, CCG018326.1
AAEL004014	glucose dehydrogenase	CCG020913.1, CCG022052.1
AAEL004107	nucleoside diphosphate kinase, putative	CCG007417.1
AAEL004127	acyl-coa dehydrogenase	CCG007582.1, CCG015332.1
AAEL004137	acyl-coa dehydrogenase	CCG007583.1, CCG015331.1

AAEL004308	proteasome subunit alpha type	CCG006701.1, CCG025336.1
AAEL004444	zinc finger protein	CCG028408.1
AAEL004507	valacyclovir hydrolase	CCG005474.1, CCG005475.1, CCG005476.1, CCG018408.1, CCG018409.1, CCG018410.1, CCG018411.1
AAEL004512	zinc finger protein	CCG024129.1, CCG024130.1, CCG025369.1
AAEL004616	actin	CCG005361.1, CCG013676.1, CCG013677.1
AAEL004643	mitochondrial ribosomal protein L1	CCG010003.1
AAEL004739	acyl-coa dehydrogenase	CCG015290.1, CCG018446.1
AAEL004946	conserved hypothetical protein	CCG011609.1
AAEL004953	elongase, putative	CCG016196.1, CCG016197.1, CCG016198.1, CCG019580.1, CCG022830.1, CCG022831.1
AAEL004975	zinc finger protein	CCG018724.1, CCG027660.1
AAEL005006	cytochrome P450	CCG009072.1, CCG017104.1
AAEL005014	transient receptor potential channel	CCG001374.1, CCG025847.1
AAEL005093	Clip-Domain Serine Protease family B.	CCG019963.1
AAEL005165	chaperone protein DNAj	CCG004951.1
AAEL005337	carbonic anhydrase	CCG013374.1
AAEL005512	speckle-type poz protein	CCG002168.1, CCG002804.1, CCG018619.1, CCG021147.1, CCG024830.1
AAEL005575	transient receptor potential channel 4,	CCG000689.1, CCG025056.1
AAEL005666	matrix metalloproteinase	CCG002163.1, CCG024035.1
AAEL005732	acyl-coa dehydrogenase	CCG001124.1, CCG006571.1
AAEL005957	phospholipase b, plb1	CCG000347.1, CCG026147.1
AAEL005959	phospholipase b, plb1	CCG000349.1, CCG008910.1
AAEL005961	actin	CCG020554.1
AAEL005969	phospholipase b, plb1	CCG000346.1, CCG018048.1
AAEL006205	hypothetical protein	CCG010228.1, CCG016224.1, CCG017035.1
AAEL006672	conserved hypothetical protein	CCG002775.1, CCG006936.2, CCG017081.1
AAEL006694	hypothetical protein	CCG015899.1, CCG015900.1
AAEL006827	cytochrome P450	CCG005828.1, CCG012577.1, CCG012578.1, CCG012579.1, CCG021012.1, CCG021013.1, CCG021014.1

AAEL006902	serine-type endopeptidase,	CCG011733.1
AAEL007024	cytochrome P450	CCG004239.3, CCG004240.1, CCG004241.1, CCG004242.1, CCG004243.1, CCG007271.1, CCG012050.1, CCG015755.1, CCG015756.1, CCG015758.1
AAEL007064	Gram-Negative Binding Protein (GNBP) or Beta-1 3-Glucan Binding Protein (BGBP).	CCG008483.1, CCG008484.1, CCG010818.1, CCG010819.1
AAEL007194	pupal cuticle protein, putative	CCG010766.1
AAEL007342	conserved hypothetical protein	CCG007525.1
AAEL007344	conserved hypothetical protein	CCG004796.1, CCG007526.1
AAEL007349	conserved hypothetical protein	CCG011149.1, CCG017066.1
AAEL007383	secreted ferritin G subunit precursor, putative	CCG011742.1
AAEL007626	Gram-Negative Binding Protein (GNBP) or Beta-1 3-Glucan Binding Protein (BGBP).	CCG009067.1
AAEL007864	zinc finger protein	CCG015630.1
AAEL007967	conserved hypothetical protein	CCG007371.2, CCG007372.1, CCG009829.2, CCG009830.1
AAEL007972	apolipoprotein D, putative	CCG004638.1, CCG004639.1, CCG006327.1
AAEL007976	conserved hypothetical protein	CCG007370.1
AAEL008156	conserved hypothetical protein	CCG000973.1, CCG020236.1
AAEL008157	conserved hypothetical protein	CCG001960.1, CCG001961.1, CCG003457.1, CCG019936.1, CCG021591.1, CCG021592.1, CCG021593.1, CCG028358.1, CCG028360.1
AAEL008172	conserved hypothetical protein	CCG021595.1
AAEL008185	conserved hypothetical protein	CCG000943.1, CCG013058.1
AAEL008186	conserved hypothetical protein	CCG001962.1
AAEL008252	n-acetylgalactosaminyltransferase	CCG003357.1, CCG015469.1
AAEL008507	srpk	CCG007520.1, CCG008785.1, CCG019735.1, CCG021138.1
AAEL008536	UCR-motif DNA binding protein, putative	CCG014864.1
AAEL008545	conserved hypothetical protein	CCG014862.1
AAEL008721	zinc finger protein	CCG018363.1
AAEL009043	conserved hypothetical protein	CCG006709.1

AAEL009176	Gram-Negative Binding Protein (GNBP) or Beta-1 3-Glucan Binding Protein (BGBP).	CCG028548.1
AAEL009178	Gram-Negative Binding Protein (GNBP) or Beta-1 3-Glucan Binding Protein (BGBP).	CCG000362.1, CCG000363.1, CCG028546.1, CCG028547.1
AAEL009266	c4b-binding protein beta chain	CCG011993.1, CCG016633.1
AAEL009414	NADH-ubiquinone oxidoreductase 39 kda subunit	CCG006720.1, CCG011605.1, CCG025023.1, CCG027546.2
AAEL009479	amino acid transporter	CCG011256.1
AAEL009499	conserved hypothetical protein	CCG012887.1
AAEL009563	hypothetical protein	CCG007102.1, CCG012695.1
AAEL009567	apolipoprotein D, putative	CCG007101.1, CCG011994.1, CCG012694.1, CCG016634.1
AAEL009569	apolipoprotein D, putative	CCG012693.1
AAEL009591	cytochrome P450	CCG012355.1
AAEL009945	conserved hypothetical protein	CCG002776.1, CCG005001.1, CCG005003.1, CCG017080.1, CCG021345.1, CCG026653.1, CCG026654.1, CCG026853.1, CCG026855.1
AAEL010157	microsomal glutathione s-transferase	CCG002774.1, CCG011065.1, CCG013227.1, CCG013228.1, CCG019696.1
AAEL010205	conserved hypothetical protein	CCG003404.1, CCG022300.1
AAEL010332	conserved hypothetical protein	CCG008861.1, CCG010218.1, CCG010219.1, CCG012794.1, CCG012795.1
AAEL010369	phospholipase b, plb1	CCG000397.1
AAEL010396	secreted ferritin G subunit precursor, putative	CCG011744.1, CCG020377.1, CCG023010.1, CCG023072.1, CCG026125.1
AAEL010405	alkyldihydroxyacetonephosphate synthase	CCG019261.1, CCG019262.1, CCG019263.1, CCG019264.1, CCG019857.1, CCG020407.1, CCG020408.1, CCG020409.1, CCG020410.1

AAEL010651	skpl	CCG000045.1, CCG000046.1, CCG003288.1, CCG010336.1, CCG011554.1, CCG011555.1, CCG012105.1, CCG016155.1, CCG016156.1, CCG017072.1, CCG017073.1, CCG017074.1, CCG017075.1, CCG017076.1, CCG018464.1, CCG019002.1, CCG019003.1, CCG019004.1, CCG022275.1, CCG024464.1, CCG025326.1, CCG025327.1, CCG025328.1, CCG025329.1, CCG025330.1
AAEL010769	Serine Protease Inhibitor (serpin) likely cleavage at S/A.	CCG011386.1, CCG021962.1
AAEL010894	carbonic anhydrase II, putative	CCG019925.1, CCG019926.1, CCG026510.1, CCG026511.1
AAEL010959	serine collagenase 1 precursor, putative	CCG001235.1, CCG002557.1, CCG002558.1, CCG012485.1, CCG016336.1, CCG016337.1, CCG018344.1, CCG020257.1, CCG022198.1
AAEL011006	guanylate kinase	CCG003584.1
AAEL011038	integrin alpha-ps	CCG026333.1
AAEL011197	actin	CCG020551.1, CCG022346.1
AAEL011444	pupal cuticle protein, putative	CCG028251.1
AAEL011522	MRAS2, putative	CCG000079.1, CCG025033.1
AAEL011656	40S ribosomal protein S15	CCG014640.1, CCG021952.1
AAEL011815	poly [ADP-ribose] polymerase	CCG001601.1, CCG018433.1
AAEL011868	conserved hypothetical protein	CCG012796.1, CCG012889.1, CCG012891.1
AAEL012143	Caspase (Short).	CCG021664.1
AAEL012292	4-nitrophenylphosphatase	CCG003125.1, CCG003126.1, CCG003127.1, CCG003128.1, CCG004826.1, CCG004827.1, CCG008170.1, CCG022003.2, CCG022004.1, CCG022005.1, CCG022006.1
AAEL012341	lysosomal acid lipase, putative	CCG004105.1, CCG004107.1, CCG026108.1
AAEL012377	odorant binding protein OBP55	CCG001738.1, CCG009946.1, CCG009948.1, CCG009949.1, CCG021480.1, CCG026944.1, CCG026945.1
AAEL012545	proliferating cell nuclear antigen	CCG018931.1, CCG018932.1
AAEL012612	serine/threonine protein kinase	CCG028075.1
AAEL012839	conserved hypothetical protein	CCG019416.1, CCG026433.1

AAEL013001	conserved hypothetical protein	CCG001286.1, CCG004568.2
AAEL013004	conserved hypothetical protein	CCG004567.1, CCG009611.1, CCG009612.1
AAEL013054	conserved hypothetical protein	CCG000911.1, CCG000912.1, CCG000913.1, CCG000914.1, CCG000916.1, CCG012625.1
AAEL013515	pupal cuticle protein, putative	CCG012028.1, CCG028246.1
AAEL013517	pupal cuticle protein 78E, putative	CCG003817.1, CCG012025.1
AAEL013537	hypothetical protein	CCG001034.1, CCG002131.1, CCG007150.1
AAEL013542	elongase, putative	CCG016766.1, CCG028428.1
AAEL013549	conserved hypothetical protein	CCG022156.1
AAEL013553	conserved hypothetical protein	CCG011608.1, CCG012886.1, CCG012893.1, CCG012896.1, CCG022162.1
AAEL013558	conserved hypothetical protein	CCG022159.1
AAEL013796	conserved hypothetical protein	CCG011610.1, CCG011611.2, CCG022158.1
AAEL013906	bone morphogenetic protein 5/7, bmp5/7	CCG007219.1, CCG014656.1, CCG020761.1, CCG020988.1
AAEL013936	Serine Protease Inhibitor (serpin) likely cleavage at I/S. Transcript A.	CCG021651.1, CCG021653.1, CCG021654.1
AAEL014132	conserved hypothetical protein	CCG005589.1
AAEL014138	Serine Protease Inhibitor (serpin) likely cleavage at S/L.	CCG011387.1, CCG021961.1
AAEL014141	Serine Protease Inhibitor (serpin) likely cleavage at S/M.	CCG001347.1
AAEL014348	Caspase (Short).	CCG003007.1, CCG003008.2, CCG011446.1, CCG027145.1
AAEL014354	Clip-Domain Serine Protease family B.	CCG016345.1
AAEL014398	conserved hypothetical protein	CCG012894.1, CCG014248.1, CCG014871.1
AAEL014401	EST aligned to AAEL018275	CCG001303.1, CCG006131.1, CCG006576.1, CCG007173.1, CCG009827.1, CCG009828.1, CCG012888.1, CCG014247.1, CCG014254.1, CCG014872.1, CCG015185.1, CCG023853.1, CCG023854.1, CCG023856.1, CCG023857.1, CCG023858.1, CCG023859.1
AAEL014405	predicted protein	CCG014253.1, CCG014865.1
AAEL014406	predicted protein	CCG006385.2

AAEL014407	B-cell lymphoma/leukaemia 11A extra long form, putative	CCG003717.2, CCG014249.1, CCG014250.1, CCG014251.1, CCG014252.1, CCG014863.1, CCG014866.1, CCG014867.1, CCG014868.1, CCG014869.3, CCG014870.1, CCG020603.1, CCG023855.1, CCG025693.1
AAEL014554	hypothetical protein	CCG008497.1, CCG008621.1, CCG008624.1, CCG008625.1, CCG026778.1
AAEL014640	Peptidoglycan Recognition Protein (Long)	CCG019470.1
AAEL014658	caspase-1	CCG009015.1, CCG009405.1, CCG009689.1, CCG009690.1, CCG028387.1
AAEL014694	hypothetical protein	CCG016152.1, CCG021472.1
AAEL014853	otoferlin	CCG008118.1, CCG008120.1
AAEL014864	conserved hypothetical protein	CCG007005.1, CCG014369.1
AAEL014919	lipase 1 precursor	CCG005092.1, CCG009145.1, CCG009158.1, CCG009159.1, CCG009161.1, CCG021026.1, CCG021029.1
AAEL014921	lipase 1 precursor	CCG011021.1, CCG014362.1, CCG021027.1
AAEL014948	zinc finger protein	CCG003282.1
AAEL014958	galactokinase	CCG025950.1, CCG027652.1
AAEL015283	synaptic vesicle protein	CCG011399.1, CCG011401.1, CCG017135.1, CCG018285.1, CCG018286.1, CCG019655.1
AAEL015326	lipase 1 precursor	CCG009157.1, CCG011850.1, CCG021030.1, CCG025600.1
AAEL015331	conserved hypothetical protein	CCG026599.1
AAEL015347	hypothetical protein	CCG004227.1, CCG023128.1
AAEL015357	conserved hypothetical protein	CCG001504.1, CCG012371.1, CCG013602.1, CCG013730.1, CCG013731.1, CCG013732.1, CCG013733.1, CCG013735.1, CCG013737.1, CCG016319.1, CCG016320.1, CCG016321.1, CCG016825.1, CCG016826.1, CCG016827.1
AAEL015386	dipeptidyl-peptidase	CCG001851.1, CCG003624.1, CCG019414.1, CCG019415.1, CCG026434.1
AAEL015641	cytochrome P450	CCG000223.1
AAEL017056	Peptidoglycan Recognition Protein (Short)	CCG009752.1, CCG015907.1, CCG028234.1, CCG028235.1

AAEL017113	Ortholog to a putative nucleolar protein in Ixodes scapularis	CCG002792.1, CCG028653.1
AAEL017133	Ortholog to a putative nucleolar protein in Ixodes scapularis	CCG000946.1, CCG000947.1, CCG012814.1, CCG013060.1, CCG013062.1, CCG014157.1, CCG025415.1, CCG027176.1
AAEL017453	Ortholog to acyl-coa dehydrogenase in Culex quinquefasciatus	CCG015291.1, CCG018445.1
AGAP000759	39S ribosomal protein L32, mitochondrial	CCG008708.1, CCG012763.1, CCG013296.1
AGAP004581	Heat shock protein 70kDa	CCG014478.2, CCG014481.1
AGAP004862	Ortholog to misfire in Drosophila melanogaster	CCG004777.1, CCG028629.1
AGAP004944	heat shock 70kDa protein 1/8	CCG007707.1, CCG014479.1, CCG022856.1
AGAP009759	cuticular protein CPLCP12	CCG016691.1
AGAP028200	cuticular protein (putative) CPLCP9	CCG020546.1
CPIJ002557	conserved hypothetical protein	CCG015706.1, CCG022740.1
CPIJ009109	conserved hypothetical protein	CCG014030.1, CCG014601.1
CPIJ011632	predicted protein	CCG006881.1, CCG019600.2
CPIJ018057	conserved hypothetical protein	CCG008951.2, CCG014398.1
FBgn0037517	No annotation yet, but single-copy ortholog in all but one sequenced Drosophila species in FlyBase	CCG003456.1