

**Table 1.** List of NCBI accessions for DSCAM1 and mitochondria

Organism	DSCAM1 accession #	Mitochondrion accession #
<i>Aethina tumida</i>	XM_049967750.1	OM084952.1
<i>Agrilus planipennis</i>	XM_025978677.1	NC_030758.1
<i>Anoplophora glabripennis</i>	XM_018721713.1	NC_008221.1
<i>Anthonomus grandis grandis</i>	XM_050449251.1	MT319132.1
<i>Aphidius gifuensis</i>	XM_044162913.1	NC_054223.1
<i>Athalia rosae</i>	XM_048650732.1	KF528463.1
<i>Bicyclus anynana</i>	XM_052883550.1	-
<i>Blattella germanica*</i>	KZ615391.1	NC_012901.1
<i>Bombus vancouverensis nearcticus</i>	XM_033332245.1	MN781530.1
<i>Bombus vosnesenskii</i>	XM_033494784.1	JN400358.1
<i>Camponotus floridanus</i>	XM_011269025.3	MK861055.1
<i>Cephus cinctus</i>	XM_025083325.1	NC_012688.1
<i>Chelonus insularis</i>	XM_035094849.1	MH890672.1
<i>Chrysoperla carnea</i>	XM_044887428.1	AB081321.1
<i>Cotesia glomerata</i>	XM_044739844.1	-
<i>Cotesia vestalis</i>	-	NC_014272.1
<i>Cryptotermes secundus</i>	XM_033755675.1	KP026283.1
<i>Dendroctonus ponderosae</i>	XM_048666484.1	JF888167.1
<i>Diabrotica virgifera virgifera</i>	XM_050660810.1	KF658070.1
<i>Diprion similis</i>	XM_046882311.1	HM414166.1
<i>Drosophila ananassae</i>	-	BK006336.1
<i>Drosophila biarmipes</i>	-	MK659809.1
<i>Drosophila elegans</i>	XM_017277271.2	-
<i>Drosophila erecta</i>	XM_026979567.1	MK659815.1
<i>Drosophila ficusphila</i>	XM_043208111.1	-
<i>Drosophila mauritiana</i>	XM_033298368.1	NC_005779.1
<i>Drosophila melanogaster</i>	NM_001273835.1	U37541.1
<i>Drosophila miranda</i>	-	MK659828.1
<i>Drosophila pseudoobscura</i>	XM_015183620.2	FJ899745.1
<i>Drosophila santomea</i>	-	NC_023825.1
<i>Drosophila sechellia</i>	XM_032716997.1	NC_005780.1
<i>Drosophila simulans</i>	XM_044922715.1	MN046104.1
<i>Drosophila subpulchrella</i>	XM_037859336.1	KM368346.1
<i>Drosophila yakuba</i>	XM_039371574.2	NC_001322.1

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<i>Formica exsecta</i>	XM_029809629.1	AB010927.1
<i>Helicoverpa zea</i>	XM_047163497.1	NC_061507.1
<i>Homalodisca vitripennis</i>	-	KX053414.1
<i>Ischnura elegans</i>	XM_046532295.1	NC_031824.1
<i>Leptinotarsa decemlineata</i>	XM_023161078.1	-
<i>Lucilia cuprina</i>	XM_046953374.1	JX913753.1
<i>Macrosteles quadrilineatus</i>	-	EU981884.1
<i>Megachile rotundata</i>	XM_012281765.1	KM566136.1
<i>Microplitis demolitor</i>	XM_053737570.1	MT956643.1
<i>Monomorium pharaonis</i>	XM_012670617.3	NC_051486.1
<i>Neodiprion fabricii</i>	XM_046561365.1	NW_025791626.1
<i>Neodiprion lecontei</i>	XM_046735229.1	BK062819.1
<i>Neodiprion virginiana</i>	XM_046755622.1	EF362175.1
<i>Nomia melanderi</i>	XM_031986520.1	-
<i>Nylanderia fulva</i>	XM_029319889.1	MF925786.1
<i>Onthophagus taurus</i>	XM_023061589.1	-
<i>Ooceraea biroi</i>	XM_026969759.1	CM010870.1
<i>Osmia bicornis bicornis</i>	XM_046285227.1	MW126581.1
<i>Osmia lignaria</i>	XM_034318528.1	MW126608.1
<i>Pantala flavescens*</i>	CM036884.1	NC_056355.1
<i>Periplaneta americana</i>	-	NC_016956.1
<i>Photinus pyralis</i>	XM_031495334.1	KY778696.1
<i>Platycnemis pennipes</i>	-	OW121859.1
<i>Platypus cylindrus*</i>	OX456489.1	KP297973.1
<i>Pogonomyrmex barbatus</i>	XM_011647060.1	HQ928758.1
<i>Polistes canadensis canadensis</i>	XM_014743321.1	EF136425.1
<i>Polistes dominula</i>	XM_015316828.1	MK091921.1
<i>Polistes fuscatus</i>	XM_043638292.1	HQ930039.1
<i>Reticulitermes speratus</i>	-	LC492870.1
<i>Schistocera cancellata</i>	XM_049907230.1	NC_063966.1
<i>Schistocera gregaria</i>	XM_049977980.1	NC_064683.1
<i>Schistocera nitens</i>	XM_049934039.1	NC_063967.1
<i>Schistocera serialis</i>	XM_050084589.1	NC_064613.1
<i>Sitophilus oryzae</i>	XM_030911106.1	NC_030765.1
<i>Tanypteryx hageni*</i>	CM054112.1	NC_010526.1
<i>Thrips palmi</i>	XM_034374134.1	-

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<i>Tribolium madens</i>	XM_044414351.1	MG458958.1
<i>Vespa crabro</i>	XM_046957719.1	MN716841.1
<i>Vespa mandarinia</i>	XM_035875601.1	NC_050197.1
<i>Vespa velutina</i>	XM_047503232.1	NC_035146.2
<i>Vespula pensylvanica</i>	NC_057685.1	HQ567586.1
<i>Zootermopsis nevadensis</i>	XM_022073894.1	NC_024658.1