

Table S3: Positively-selected codon positions in *SAMD9* and *SAMD9L* determined by six different Maximum Likelihood methods

	<i>SAMD9</i>	<i>SAMD9L</i>
PAML M8 ^a	21*, 48* , 52, 88 , 491 , 736, 1006* , 1085**, 1088, 1116* , 1120*, 1258* , 1348, 1380, 1398* , 1440	71**, 126**, 146*, 156 , 260 , 267* , 329*, 340** , 357* , 368*, 452** , 586* , 639, 653* , 1145*, 1183, 1276* , 1295**, 1318*, 1339, 1380*, 1408*
SLAC ^b	352 , 383 , 491* , 513 , 731 , 1006* , 1116 , 1320* , 1329 , 1398*	156 , 267* , 340** , 362* , 586* , 606 , 776* , 978* , 1018, 1186 , 1229 , 1429 , 1474
FEL ^b	38, 45*, 75*, 88* , 151, 170*, 176, 279* , 331 , 352* , 383* , 395*, 491* , 513* , 596*, 610, 618*, 731 , 735, 783*, 872 , 875*, 993* , 1006** , 1095, 1116** , 1127, 1258* , 1320* , 1329* , 1333, 1351, 1376, 1393, 1398** , 1424, 1503, 1528	5, 39* , 56, 76, 83, 88, 92, 156* , 260 , 267** , 282, 340** , 357* , 362** , 452** , 519, 540, 585, 586* , 602, 606* , 653* , 776* , 783, 978* , 1006, 1154*, 1186 , 1189*, 1229* , 1255, 1276 , 1308 , 1360*, 1364, 1374, 1413, 1429* , 1474*
REL ^c	48 , 52, 69, 106, 116, 193, 279 , 312, 331 , 372, 376, 397, 491 , 594, 611, 731 , 736, 827, 872 , 956, 993 , 1006 , 1017, 1085, 1088, 1092, 1116 , 1120, 1167, 1177, 1258 , 1314, 1320 , 1327, 1329 , 1348, 1380, 1398 , 1519, 1576	39 , 126, 156 , 260 , 267 , 279, 325, 328, 340 , 357 , 362 , 452 , 586 , 601, 639, 653 , 721, 776 , 822, 953, 978 , 996, 1018, 1078, 1106, 1109, 1183, 1229 , 1231, 1276 , 1295, 1308 , 1316, 1335, 1367, 1380, 1413, 1429 , 1535
MEME ^b	21, 38**, 45*, 48 , 61*, 75*, 77*, 79**, 85**, 88* , 96, 109, 121, 143, 145, 170, 173, 176, 187, 191, 193, 201**, 218*, 279 , 331* , 352** , 353, 365, 369, 383 , 387, 395, 491* , 513* , 596, 610, 618, 623*, 642*, 731 , 735**, 744, 783, 859, 872 , 875*, 969**, 993* , 1003*, 1006** , 1007, 1041, 1063, 1116* , 1174*, 1199, 1252, 1258* , 1320* , 1329* , 1341*, 1347*, 1351*, 1376*, 1393, 1398** , 1415, 1422, 1444**, 1467*, 1528, 1556**, 1566*	5, 24*, 39* , 76*, 92, 142*, 149*, 156* , 170, 181*, 212*, 213*, 267** , 282, 299, 318, 323*, 340** , 341**, 350, 351, 357* , 359, 362* , 366, 373*, 377*, 426*, 452** , 468*, 509, 519*, 540, 555*, 585, 586* , 602, 606 , 632**, 653 , 723, 725*, 754, 776* , 789*, 791*, 848, 856, 859, 861*, 888**, 889*, 945*, 963, 978* , 1004*, 1006*, 1109*, 1150*, 1154, 1170, 1186* , 1189, 1287, 1308 , 1335**, 1339*, 1343, 1346, 1360*, 1374*, 1385, 1390, 1429* , 1474* , 1535
FUBAR ^d	1006 , 1398	156 , 267* , 340** , 357 , 452

^aCodons with posterior probabilities >90% in the BEB analyses (*: P>95%; **: P>99%)

^bCodons with significance level <0.1 (*: p<0.05; **: p<0.01)

^cCodons with Bayes Factor >50

^dCodons with posterior probabilities >0.90 (*: P>0.95; **: P>0.99)

Codons identified by three or more than three methods are underlined and in bold.