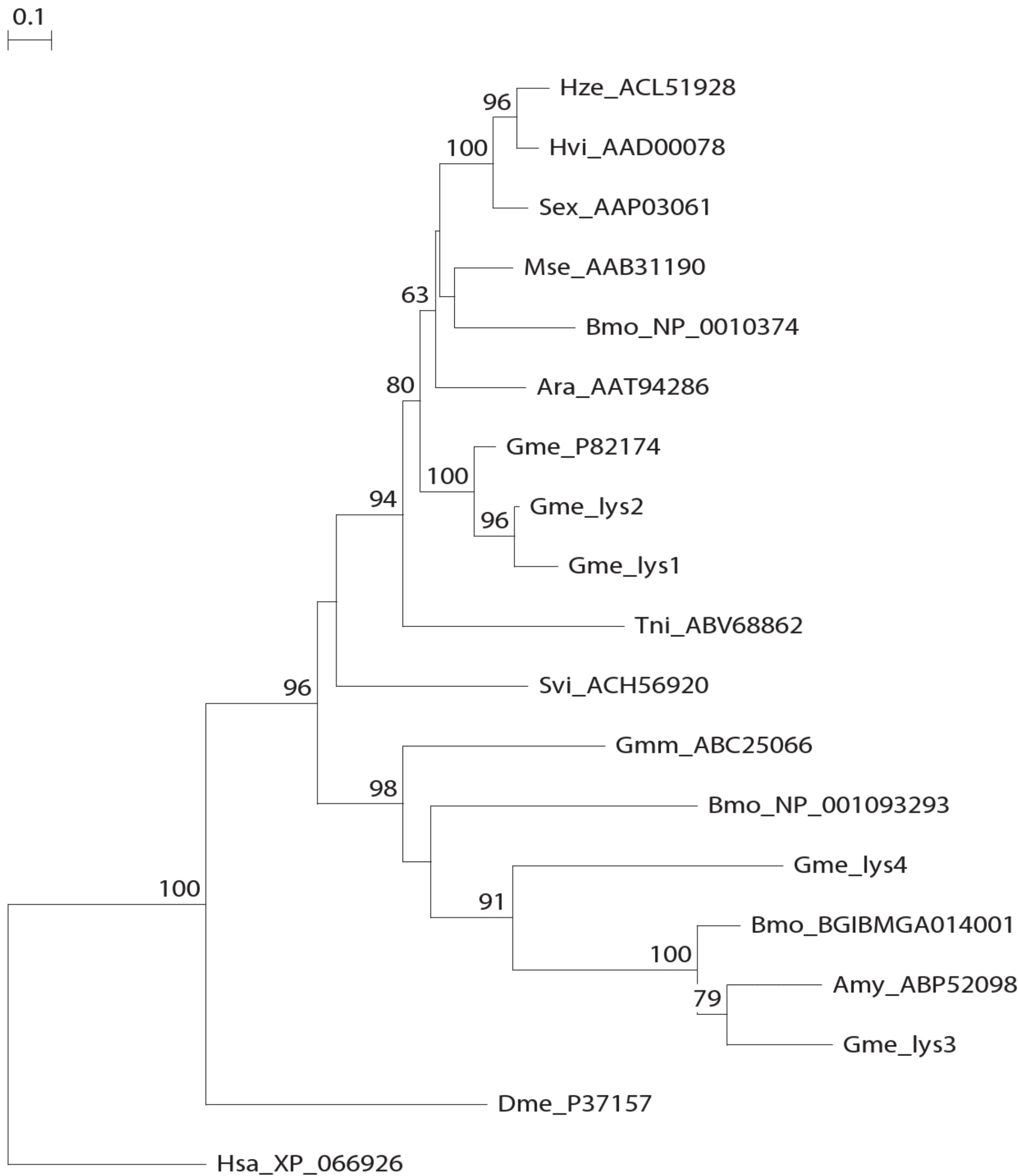


A)



B)

Gmm_ABC25066	-MNFKNFCITRYLVLLLLLIFNFLAKN-QAKMFT-RCQLAKEELRHDFPRSY---	LSNWVCLVENESGRSTSKVTQLPNQ-SVSYGLFQINSKNWCRK-GRKGGI
Bmo_NP_001093293	-----MVQSPHLGLLFLAVTLVHSSEGHAKVFT-RCQLSRELLRYNFPRAL---	IPTWVCLTEHMISSRTTEKITNHNNS-YSSYGLFQINNKKDWCKK-GRKGGN
Dme_P37157	-----MKAF---IVLVALACAAPAFGRMTD-RCSLAREMSNLGVPRDQ---	LARWACIAEHESYRTGVVGPENYNGSNDYGIFQINDYYWCAPPSGRFSY
Hsa_XP_066926	-----MKAWGTVVVTLATLMVVTVDAKIYE-RCELAARLEERAGLNGYKGYGVGDWL	CMAHYESGFDATAFVD-HNPDGSSEYGIFQLNSAWWCDN-GITPTK
Gme_lys1	-----MKTIIIFIV--FIAFSLASQGDAKTFT-RCGLVQALRSQGFDEAK---	MRDWVCLVENESGRITDIVGKPNKNGSRDYGLFQINDKYWCNNITKPGKG
Gme_lys2	-----	VCLVENESGRRTDIVGKPNKNGFRDYGLFQINDKYWCNNIIPKKG
Gme_P82174	-----KTFT-RCGLVQALRRQGFDEAK---	LRDWVCLVENESRGRTDIVGKPNKNGSRDYGLFQINDKYWCSNTSKAGKD
Hvi_AAD00078	-----MOKLTTLFV--VALAAVVLHCEAKQFS-RCGLVQELRRQGFPEDEK---	LGDWVCLVENESARKTDKVGTVNKNNGSRDYGLYQINDKYWCSNTSTPGKD
Hze_ACL51928	-----MOKLTTLFV--VALATVVLHCDAKYFATRCELVHELRLRQGFPEDEK---	MRDWVCLVENESGRKTDKVGTVNKNNGSRDYGLYQINDKYWCSNTSTPGKD
Sex_AAP03061	-----MOKLTVFV--LALVAFCLHCEAKHFT-RCGLVQELRRQGFPEDEK---	MRDWVCLVENESGRKTDKMGTVNKNNGSRDYGLFQINDKYWCSNTSTPGKD
Mse_AAB31190	-----MYKLIVF--ALFAFAYHSEAKHFS-RCGLVHELRLRQGFPEENL---	MRDWVCLVENESSRYTDKVGTVNKNNGSRDYGLFQINDKYWCSNGSTPGKD
Bmo_NP_0010374	-----MOKLIIF--ALVVLCVGSEAKTFT-RCGLVHELRLKHGFEEENL---	MRNWVCLVEHESSRDTSKTN-TNRNGSKDYGLFQINDRYWCSKASPGKD
Ara_AAT94286	-----MKLAVFI--FALAAL-FGAFAVTFT-RCQLVRELRLNQGFPEK---	MRDWVCLVENESSRNTAKVGKVNKNNGSRDYGLFQINDKYWCSNTNTAGKD
Tni_ABV68862	-----MKLAVFVC-VLFCCTCIFVESKHFE-RCGLVQELRKQEFPEENK---	LNNWVCLIESESRRRTDIVGTPANS DGSRDYGLFQINDNIWCSNTTVAGKG
Svi_ACH56920	-----MNIFIIVTGIFLLGWNSPVEAKQFKTDCELVRALRQNGFPETQ---	LRDWACLIFAESSRQT-QLTHKNRNGSTDYGLFQINSKYWCG-TGKKGGD
Gme_lys3	-----MANGRLACYVLILALSCALVRSKVFTRCQLTRELLKN-NYPRTF---	LSNWVCLIEQQSDRNT-SAFVVKSPRRKYGLFQIG-SEWCKE-GRKGGK
Bmo_BGIBMGA014001	-----MTSG-----AAFSR-----	VCLIEQQSDRNT-SALVVKSPRRKYGLFQIG-SEWCKE-GRKGGK
Amy_ABP52098	-----MAYGRVLLSIFVVSFLFN-TEAKIYTRCQLTRELLKN-NFSRTF---	LSNWVCLIEQESDRNT-SALVVKSSRRKYGLFQIG-SEWCKE-GRKGGK
Gme_lys4	-----MRVYIFNFVNSFKCVFN--VTVVKFTRCKLVRELRLKINQIEKTF---	LGSWVCLIEKESQDP-AAAYRE-SGARKYYGLYQIP-QVWCKN-GRKGGK
Gmm_ABC25066	--CNIKCEDFLSDEISDDSRCAMQIFN-RHGFKAWPGWVNKCRGR-----	ALPDVSR-----
Bmo_NP_001093293	--CNMKCEDLLNEDLADDVRCARVYD-RIGFKAWPSSYSYCKQK-----	NLPDISRC-----
Dme_P37157	NECGLSCNALLTDDITHSVRCAQKVLS-QQGWSAWSTM-HYCSG-----	WLPSIDDCF-----
Hsa_XP_066926	NLCHMDCHDLLNRHILDDIRCAKQIVSSQNGLSAWTSWRLHCSGHDL-----	EWLKGCDMHVKIDPKIHP-----
Gme_lys1	--CNITCSQLLTDDITVASKCAKKIYK-RHHFMAWYGWRNHCQNK-----	PLPDISNC-----
Gme_lys2	--CNITCSQFLTDDITVAFKCAKKISK-RHHFMAWYGWRNHCQNK-----	PLPDISNC-----
Gme_P82174	--CNITCSQLLTDDITVASKCAKKVYK-RHNFMAWYGWRNHCQNK-----	PLPDISK-----
Hvi_AAD00078	--CNVTCAEMLLDDITKASTCAKKIYK-RHKFEAWYGWKNHCKGK-----	TLPDISNC-----
Hze_ACL51928	--CNVTCAEMLLDDITKASTCAKKIYK-RHKFEAWYGWKNHCKGK-----	TLPDISNC-----
Sex_AAP03061	--CNVTCAQMLLDDITLASQCAKKIYK-RHKFDAWYGWKNHCKGK-----	TLPDISNC-----
Mse_AAB31190	--CNVKCSDLLIDDITKASTCAKKIYK-RHKFQAWYGWRNHCQG-----	SLPDISS-----
Bmo_NP_0010374	--CNVKCSDLLTDDITKAACKCAKKIYK-RHRFDAWYGWKNHCKG-----	SLPDISS-----
Ara_AAT94286	--CNVTCAQVTTDDITKAATCAKKIYK-RHGFFAWYGWRNHCQG-----	SLPDISS-----
Tni_ABV68862	--CQVTCAEELITDDITKASVCAKKIYR-KQGFFAWHGWTKRCK-----	FLQDISHC-----
Svi_ACH56920	--CNVRCEDLLDDNIVDDSKCAKKIFK-RHGFKAWYGVQSKCQCK-----	ALPNISQC-----
Gme_lys3	--CDISCEALLDEDIKDDGECALKVFE-QEGFKYWSKWEARCKGHTLP---	DIEKCPDWQHPPQSRMSPPRDKRTLGRKRSYRRFLYDRYRS---NPII---
Bmo_BGIBMGA014001	--CDIPCEALLDEDIKDDGVCAIKIFE-QEGFKYWPKWEVRCKGQTLP---	DIEKCPDWQLPP-SRASPPRDKRYLKS DNSYKLFGRGRNLSSIRNKIYLQ---
Amy_ABP52098	--CDISCEALLDEDIKDDGNCALKVFE-LEGFKYWPKWVARCKGQLLP---	DIEKCPDWQNPP-SRASPPRDKRTAMARG--KRHITRRVRRGRRSVRY---
Gme_lys4	--CNIACEALLDDDIRDDTECAVHIYE-KEGFKYWSQWMVRCKNDNFITG-EIYKCPDLSSPRTSREKDL	EEILKLKEQRDKMRNHSDLRTTYGINWFF---