

Supplementary File-S9 – Saturation Analysis using DAMBE

	ISS	ISScs	ISScs-Pval
Mammal-AMBN - ALLpos	0.3669	0.7745	0
Mammal-AMBN - pos1+2	0.3172	0.7505	0
Mammal-AMBN - pos3	0.4571	0.7093	0
Mammal-AMEL - ALLpos	0.2335	0.7244	0
Mammal-AMEL - pos1+2	0.1567	0.7038	0
Mammal-AMEL - pos3	0.1844	0.7244	0
Mammal-ENAM - ALLpos	0.3702	0.8218	0
Mammal-ENAM - pos1+2	0.323	0.8054	0
Mammal-ENAM - pos3	0.453	0.769	0

	ISS	ISScs	ISScs-Pval
Mammals+Reptiles-AMBN – ALLpos	0.4997	0.7234	0
Mammals+Reptiles-AMBN - pos1+2	0.4420	0.6990	0
Mammals+Reptiles-AMBN - pos3	0.6191	0.6840	0.0295
Mammals+Reptiles-AMEL - ALLpos	0.4501	0.6893	0
Mammals+Reptiles-AMEL - pos1+2	0.2942	0.6825	0
Mammals+Reptiles-AMEL - pos3	0.5571	0.7444	0.0001
Mammals+Reptiles-ENM - ALLpos	0.5195	0.7886	0
Mammals+Reptiles-ENM - pos1+2	0.4581	0.7663	0
Mammals+Reptiles-ENM - pos3	0.6243	0.7181	0

	ISS	ISScs	ISScs-Pval
Reptiles - AMBN - ALLpos	0.4006	0.7558	0
Reptiles - AMBN - pos1+2	0.3056	0.7229	0
Reptiles - AMBN - pos3	0.4886	0.6459	0
Reptiles - AMEL - ALLpos	0.3336	0.6939	0
Reptiles - AMEL - pos1+2	0.2533	0.6451	0
Reptiles - AMEL - pos3	0.4765	0.5272	0
Reptiles - ENAM - ALLpos	0.4270	0.7969	0
Reptiles - ENAM - pos1+2	0.3831	0.7837	0
Reptiles - ENAM - pos3	0.5249	0.7489	0