

APPENDIX 1. DISTRIBUTION OF CHARACTER STATES

All the data are studied and described by the authors.

Table 1. P4 Labial anteroloph.

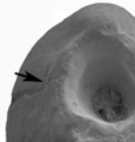
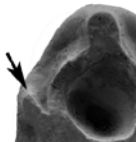
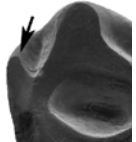
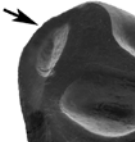
Localities						N
<i>Y. suni</i>	HTE-014-018	1 (50%)			1 (50%)	2
	HTE-008			1 (50%)	1 (50%)	2
	HTE-009			1 (100%)		1
<i>Y. deflexus</i>	HTS-011/1			1 (50%)	1 (50%)	2
	HTE-057				1 (100%)	1
	HTSE-013/5				1 (100%)	1
	HTSE-009+013		1 (17%)	1 (17%)	4 (67%)	6
	RHN-023			1 (25%)	3 (75%)	4
	RHN-A/7		1 (10%)	7 (70%)	2 (20%)	10
	TAT-043				1 (100%)	1
	TGW-A/5			1 (100%)		1
	TGW-A/surface		1 (25%)	2 (50%)	1 (25%)	4
	DEL-B/12			2 (100%)		2
	IKH-A/5			1 (100%)		1
	LOH-C/1 α				1 (100%)	1
	LOH-C/1 β			2 (67%)	1 (33%)	3

Table 2. P4 Labial crest of the protoloph.

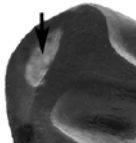
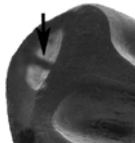
Localities				N
<i>Y. suni</i>	HTE-014-018	2 (100%)		2
	HTE-009	1 (100%)		1
<i>Y. deflexus</i>	HTS-011/1	1 (50%)	1 (50%)	2
	HTE-057	1 (100%)		1
	HTSE-013/5	1 (100%)		1
	HTSE-009+013	7 (100%)		7
	RHN-023	4 (100%)		4
	RHN-A/7	11 (100%)		11
	TAT-043	1 (100%)		1
	TGW-A/5	1 (100%)		1
	TGW-A/surface	5 (100%)		5
	DEL-B/12	3 (100%)		3
	IKH-A/5	1 (100%)		1
	LOH-C/1 α	1 (100%)		1
	LOH-C/1 β	3 (100%)		3

Table 3. P4 Lingual anteroloph.

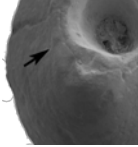
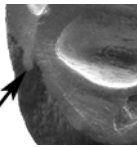
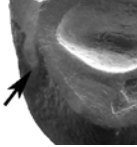
Localities					N
<i>Y. suni</i>	HTE-014-018	2 (100%)			2
	HTE-008			1 (100%)	1
	HTE-009		1 (100%)		1
<i>Y. deflexus</i>	HTS-011/1	2 (100%)			2
	HTE-057	1 (100%)			1
	HTSE-013/5		1 (100%)		1
	HTSE-009+013	3 (50%)	1 (17%)	2 (33%)	6
	RHN-023	2 (50%)	2 (50%)		4
	RHN-A/7	6 (60%)	3 (30%)	1 (10%)	10
	TAT-043			1 (100%)	1
	TGW-A/5		1 (100%)		1
	TGW-A/surface	4 (100%)			4
	DEL-B/12	2 (100%)			2
	IKH-A/5	1 (100%)			1
	LOH-C/1 α			1 (100%)	1
	LOH-C/1 β			3 (100%)	3

Table 4. P4 Lingual crest of the protoloph.

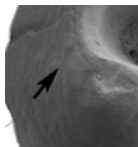
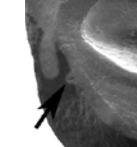
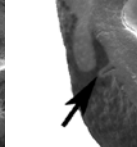
Localities					N
<i>Y. suni</i>	HTE-014-018	2 (100%)			2
	HTE-009	1 (100%)			1
<i>Y. deflexus</i>	HTS-011/1	2 (100%)			2
	HTE-057	1 (100%)			1
	HTSE-013/5	1 (100%)			1
	HTSE-009+013	6 (86%)	1 (14%)		7
	RHN-023	3 (75%)		1 (25%)	4
	RHN-A/7	11 (100%)			11
	TAT-043	1 (100%)			1
	TGW-A/5	1 (100%)			1
	TGW-A/surface	5 (100%)			5
	DEL-B/12	3 (100%)			3
	IKH-A/5	1 (100%)			1
	LOH-C/1 α	1 (100%)			1
	LOH-C/1 β	3 (100%)			3

Table 5. P4 Labial posteroloph.


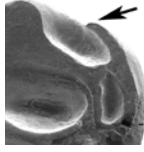
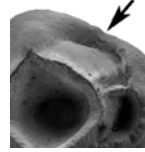
Localities					N
<i>Y. suni</i>	HTE-014-018		2 (100%)		2
	HTE-008	1 (100%)			1
	HTE-009		1 (100%)		1
<i>Y. deflexus</i>	HTS-011/1		3 (100%)		3
	HTE-057	1 (100%)			1
	HTSE-013/5		1 (100%)		1
	HTSE-009+013	4 (57%)	3 (43%)		7
	RHN-023	3 (100%)			3
	RHN-A/7	6 (60%)	3 (30%)	1 (10%)	10
	TAT-043	2 (100%)			2
	TGW-A/5	1 (25%)	3 (75%)		4
	TGW-A/surface	2 (40%)	3 (60%)		5
	DEL-B/12	1 (50%)	1 (50%)		2
	IKH-A/5		1 (100%)		1
	LOH-C/1 α	1 (100%)			1
	LOH-C/1 β	3 (100%)			3
<i>Y. birgeri</i>	TAT-051/2	1 (50%)	1 (50%)		2

Table 6. P4 Labial crest of the metaloph.

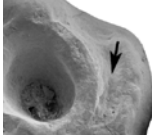
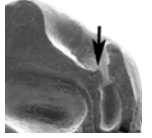
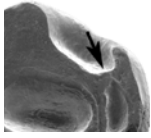
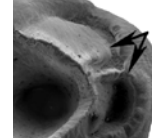
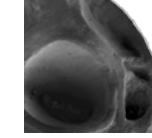
Localities							N
<i>Y. suni</i>	HTE-014-018	2 (100%)					2
	HTE-009		1 (100%)				1
<i>Y. deflexus</i>	HTS-011/1			2 (67%)	1 (25%)		3
	HTE-057				1 (100%)		1
	HTSE-013/5		1 (100%)				1
	HTSE-009+013		1 (14%)	2 (29%)	2 (29%)	2 (22%)	7
	RHN-023	1 (33%)		1 (33%)	1 (25%)		3
	RHN-A/7			4 (40%)	1 (17%)	5 (33%)	10
	TAT-043					1 (100%)	1
	TGW-A/5	1 (25%)		3 (75%)			4
	TGW-A/surface	1 (17%)	2 (33%)	2 (33%)		1 (14%)	6
	DEL-B/12	1 (33%)		1 (33%)		1 (25%)	3
	IKH-A/5	1 (100%)					1
	LOH-C/1 α			1 (100%)			1
	LOH-C/1 β			1 (50%)		1 (33%)	2
<i>Y. birgeri</i>	TAT-051/2			2 (100%)			2

Table 7. P4 Lingual posteroloph

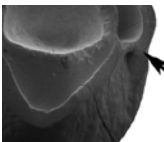
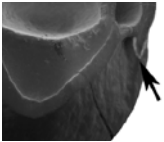
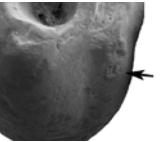
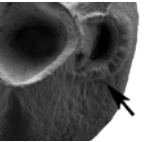
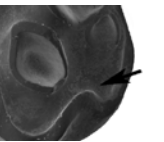
Localities							N	
<i>Y. suni</i>	HTE-014-018			2 (100%)			2	
	HTE-008	1 (100%)					1	
	HTE-009				1 (100%)		1	
<i>Y. deflexus</i>	HTS-011/1				2 (100%)		2	
	HTE-057		1 (100%)				1	
	HTSE-013/5				1 (100%)		1	
	HTSE-009+013		2 (29%)	5 (71%)			7	
	RHN-023			3 (75%)	1 (25%)		4	
	RHN-A/7		1 (11%)	1 (11%)	7 (78%)		9	
	TAT-043			2 (100%)			2	
	TGW-A/5			2 (50%)	1 (25%)	1 (25%)	4	
	TGW-A/surface			6 (100%)			6	
	DEL-B/12	1 (50%)		1 (50%)			2	
	IKH-A/5	1 (100%)					1	
	LOH-C/1 α			1 (100%)			1	
	LOH-C/1 β			1 (33%)	2 (67%)		3	
	<i>Y. birgeri</i>	TAT-051/2					2 (100%)	2

Table 8. P4 Lingual crest of the metaloph.

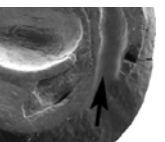
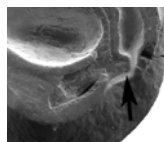
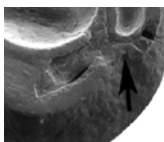
Localities					N
<i>Y. suni</i>	HTE-014-018			2 (100%)	2
	HTE-009			1 (100%)	1
<i>Y. deflexus</i>	HTS-011/1	3 (100%)			3
	HTE-057	1 (100%)			1
	HTSE-013/5			1 (50%)	1
	HTSE-009+013	5 (71%)		2 (50%)	7
	RHN-023	1 (33%)	1 (33%)	1 (33%)	3
	RHN-A/7		1 (11%)	8 (47%)	9
	TAT-043	1 (100%)			1
	TGW-A/5	2 (50%)		2 (50%)	4
	TGW-A/surface		1 (20%)	4 (44%)	5
	DEL-B/12	1 (33%)		2 (50%)	3
	IKH-A/5			1 (100%)	1
	LOH-C/1?	1 (100%)			1
LOH-C/1?	2 (100%)			2	
<i>Y. birgeri</i>	TAT-051/2			2 (100%)	2

Table 9. M1 Labial Anteroloph.

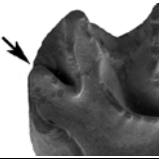
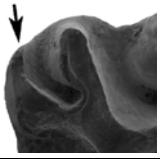
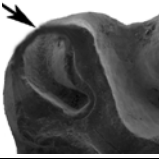
Localities					N
<i>Y. suni</i>	HTE-009			1 (100%)	1
	UNCH-A/4		1 (100%)		1
<i>Y. deflexus</i>	HTS-011/1		1 (50%)	1 (50%)	2
	HTE-057			1 (100%)	1
	HTSE-009+013			3 (100%)	3
	RHN-023	1 (20%)	4 (80%)		5
	RHN-A/7		1 (100%)		1
	TAT-052/1		1 (100%)		1
	TAT-043			1 (100%)	1
	TGW-A/surface		4 (100%)		4
	DEL-B/12		1 (50%)	1 (50%)	2
	IKH-A/5		1 (100%)		1

Table 10. M1 Protoloph.

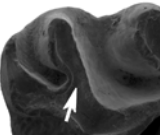
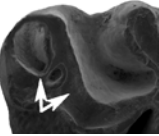
Localities				N
<i>Y. suni</i>	HTE-009	1 (100%)		1
	UNCH-A/4	1 (100%)		1
<i>Y. deflexus</i>	HTS-011/1	1 (50%)	1 (50%)	2
	HTE-057	1 (100%)		1
	HTSE-009+013	3 (100%)		3
	RHN-023	4 (100%)		4
	RHN-A/7	1 (100%)		1
	TAT-E/22	1 (100%)		1
	TAT-052/1	1 (100%)		1
	TAT-043	1 (50%)	1 (50%)	2
	TGW-A/surface	1 (100%)		1
	DEL-B/12	2 (100%)		2
	IKH-A/5	2 (100%)		2
	LOH-C/1β		1 (100%)	1

Table 11. M1 Orientation of the Protoloph.

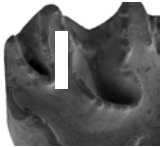
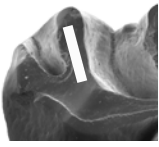
Localities				
<i>Y. suni</i>	HTE-009		1 (100%)	1
	HTE-057	1 (100%)		1
<i>Y. deflexus</i>	HTSE-009+013		3 (100%)	3
	RHN-023	2 (67%)	1 (33%)	3
	RHN-A/7	1 (100%)		1
	TAT-E/22		1 (100%)	1
	TAT-052/1		1 (100%)	1
	TGW-A/surface	1 (100%)		1
	DEL-B/12	2 (100%)		2
	IKH-A/5	1 (50%)	1 (50%)	2
	LOH-C/1β		1 (100%)	1

Table 12. M1 morphotypes of the metaloph (after Vianey-Liaud et al., 2006 and Schmidh-Kittler et al. 2007).



Localities				N
<i>Y. suni</i>	HTE-009	1 (100%)		1
	UNCH-A/4	1 (100%)		1
<i>Y. deflexus</i>	RHN-023	1 (50%)	1 (50%)	2
	TAT-E/22		1 (100%)	1
	TAT-043	1 (50%)	1 (50%)	2
	DEL-B/12	1 (100%)		1
	LOH-C/1β	1 (100%)		1

Table 13. M1 Metaloph.

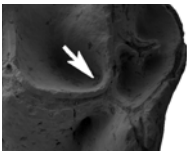
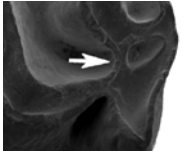
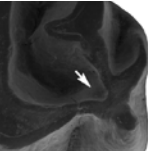
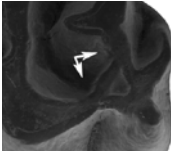
Localities						N
<i>Y. suni</i>	HTE-009	1 (100%)				1
	UNCH-A/4	1 (100%)				1
<i>Y. deflexus</i>	RHN-023	1 (50%)	1 (50%)			2
	TAT-E/22		1 (100%)			1
	TAT-043	1 (50%)			1 (50%)	2
	DEL-B/12	1 (100%)				1
	LOH-C/1β				1 (100%)	1

Table 14. M1 Metaloph orientation.

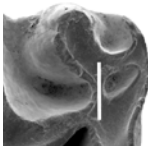
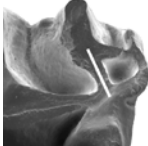
Localities				N
<i>Y. suni</i>	HTE-009	1 (100%)		1
	UNCH-A/4	1 (100%)		1
<i>Y. deflexus</i>	HTS-011/1	1 (100%)		1
	HTE-057	1 (100%)		1
	RHN-023	2 (67%)	1 (33%)	3
	TAT-E/22	1 (100%)		1
	TGW-A/surface	1 (100%)		1
	DEL-B/12	2 (100%)		2
	LOH-C/1β		1 (100%)	1

Table 15. M1 Additional structures and crests.

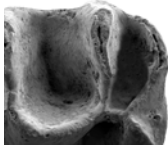
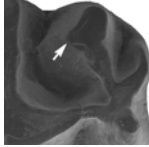
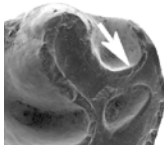
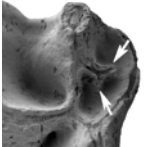
Localities						N
<i>Y. suni</i>	UNCH-A/4			1 (100%)		1
	HTS-011/1			1 (100%)		1
	HTE-057			1 (100%)		1
	RHN-023			2 (100%)		2
	TAT-E/22			1 (100%)		1
	TAT-052/1	1 (100%)				1
<i>Y. deflexus</i>	TAT-043	1 (50%)		1 (50%)		2
	TGW-A/5			1 (100%)		1
	TGW-A/surface		1 (100%)			1
	DEL-B/12			1 (50%)	1 (50%)	2
	IKH-A/5			1 (100%)		1
	LOH-C/1β	1 (100%)				1

Table 16. M2 Labial Anteroloph.

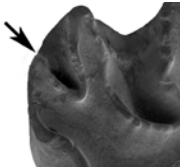
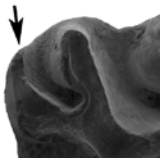
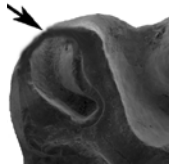
Localities					N
<i>Y. suni</i>	HTE-014-018		1 (50%)	1 (50%)	2
	HTE-009		1 (100%)		1
	HTS-011/1		2 (67%)	1 (33%)	3
	HTE-057		1 (50%)	1 (50%)	2
	HTSE-010			1 (100%)	1
	HTSE-013/5			1 (100%)	1
	HTSE-009+013		1 (20%)	4 (80%)	5
	RHN-023		6 (86%)	1 (14%)	7
	RHN-A/7	1 (25%)	1 (25%)	2 (50%)	4
<i>Y. deflexus</i>	TAT-052/1			2 (100%)	2
	TAT-051/2		1 (100%)		1
	TAT-043			1 (100%)	1
	TGW-A/5			4 (100%)	4
	TGW-A/surface		3 (43%)	4 (57%)	7
	DEL-B/12		5 (63%)	3 (38%)	8
	IKH-A/5		4 (80%)	1 (20%)	5
	LOH-C/1α		1 (50%)	1 (50%)	2
	<i>Y. birgeri</i>	TAT-051/2			2 (100%)

Table 17. M2 Lingual Anteroloph.

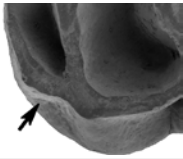
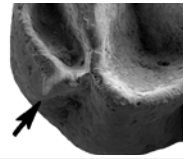
Localities				N	
<i>Y. suni</i>	HTE-014-018	2 (100%)		2	
	HTE-009	1 (100%)		1	
	HTS-011/1	2 (67%)	1 (33%)	3	
	HTE-057	2 (100%)		2	
	HTSE-010	1 (100%)		1	
	HTSE-009+013	5 (100%)		5	
	RHN-023	7 (100%)		7	
	RHN-A/7	4 (100%)		4	
	TAT-052/1	2 (100%)		2	
<i>Y. deflexus</i>	TAT-051/2	1 (100%)		1	
	TAT-043	1 (100%)		1	
	TGW-A/5	4 (100%)		4	
	TGW-A/surface	9 (100%)		9	
	DEL-B/12	9 (100%)		9	
	IKH-A/5	5 (100%)		5	
	LOH-C/1α	2 (100%)		2	
		LOH-C/1β	1 (100%)		1
	<i>Y. birgeri</i>	TAT-051/2	1 (100%)		1

Table 18. M2 Protoloph.

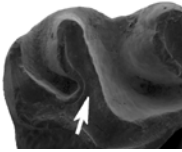
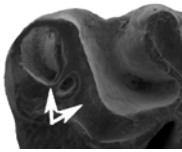
Localities				N
<i>Y. suni</i>	HTE-014-018	2 (100%)		2
	HTE-009	1 (100%)		1
	HTS-011/1	2 (100%)		2
	HTE-057	1 (50%)	1 (50%)	2
	HTSE-009+013	5 (100%)		5
	RHN-023	7 (100%)		7
	RHN-A/7	4 (100%)		4
	TAT-052/1	2 (100%)		2
<i>Y. deflexus</i>	TAT-051/2	1 (100%)		1
	TAT-043	1 (100%)		1
	TGW-A/5	3 (100%)		3
	TGW-A/surface	7 (100%)		7
	DEL-B/12	10 (100%)		10
	IKH-A/5	2 (100%)		2
	LOH-C/1α	2 (100%)		2

Table 19. M2 Protoloph orientation.

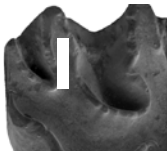
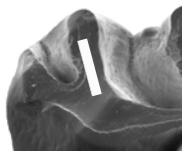
Localities				N
<i>Y. suni</i>	HTE-014-018	1 (50%)	1 (50%)	2
	HTE-009	1 (100%)		1
	HTS-011/1	2 (100%)		2
	HTE-057	1 (100%)		1
	HTSE-009+013	3 (60%)	2 (40%)	5
	RHN-023	5 (83%)	1 (17%)	6
	RHN-A/7	2 (50%)	2 (50%)	4
<i>Y. deflexus</i>	TAT-051/2		1 (100%)	1
	TAT-043		1 (100%)	1
	TGW-A/5	1 (50%)	1 (50%)	2
	TGW-A/surface	6 (86%)	1 (14%)	7
	DEL-B/12	10 (100%)		10
	IKH-A/5	1 (50%)	1 (50%)	2
	LOH-C/1α		1 (100%)	1

Table 20. M2 morphotypes of the metaloph (after Vianey-Liaud et al., 2006 and Schmidh-Kittler et al. 2007).


Localities					N
<i>Y. suni</i>	HTE-014-018	2 (100%)			2
	HTE-009	1 (100%)			1
<i>Y. deflexus</i>	HTS-011/1	1 (100%)			1
	HTE-057		1 (100%)		1
	HTSE-009+013		1 (100%)		1
	RHN-023	1 (25%)	3 (75%)		4
	RHN-A/7		3 (75%)		4
	TAT-052/1	1 (100%)			1
	TAT-051/2		1 (100%)		1
	TAT-043		1 (100%)		1
	TGW-A/5	1 (50%)	1 (50%)		2
	TGW-A/surface	3 (100%)			3
	DEL-B/12	7 (88%)	1 (13%)		8
	IKH-A/5	2 (100%)			2
	LOH-C/1α	1 (50%)	1 (50%)		2

Table 21. M2 Metaloph.

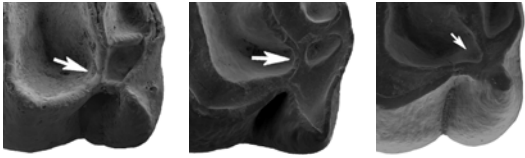
Localities					N
<i>Y. suni</i>	HTE-014-018	2 (100%)			2
	HTE-009	1 (100%)			1
<i>Y. deflexus</i>	HTS-011/1	1 (100%)			1
	HTE-057		1 (100%)		1
	HTSE-009+013		1 (100%)		1
	RHN-023		3 (75%)		4
	RHN-A/7		2 (50%)		4
	TAT-052/1	1 (100%)			1
	TAT-051/2		1 (100%)		1
	TAT-043		1 (100%)		1
	TGW-A/5	1 (50%)	1 (50%)		2
	TGW-A/surface	3 (100%)			3
	DEL-B/12	7 (100%)			7
	IKH-A/5	2 (100%)			2
	LOH-C/1α	1 (50%)	1 (50%)		2

Table 22 M2 Metaloph orientation.

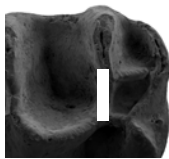
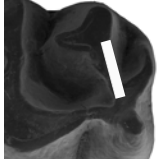
Localities				N
<i>Y. suni</i>	HTE-014-018	2 (100%)		2
	HTE-009	1 (100%)		1
<i>Y. deflexus</i>	HTS-011/1	3 (100%)		3
	HTE-057	1 (50%)	1 (50%)	2
	HTSE-009+013	1 (100%)		1
	RHN-023	3 (100%)		3
	RHN-A/7	1 (25%)	3 (75%)	4
	TAT-052/1	1 (100%)		1
	TAT-043		1 (100%)	1
	TGW-A/5	1 (100%)		1
	TGW-A/surface	4 (80%)	1 (20%)	5
	DEL-B/12	5 (83%)	1 (17%)	6
	IKH-A/5	2 (100%)		2
	LOH-C/1α	1 (50%)	1 (50%)	2

Table 23. M2 Additional structures and crests.

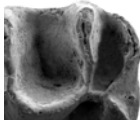

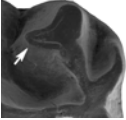
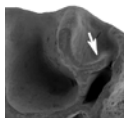
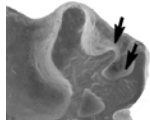
Localities							N
<i>Y. suni</i>	HTE-014-018		1 (50%)		1 (50%)		2
	HTE-009	2 (50%)		1 (25%)	1 (25%)		4
<i>Y. deflexus</i>	HTS-011/1				3 (100%)		3
	HTE-057				1 (100%)		1
	HTSE-009+013				1 (100%)		1
	RHN-023				4 (100%)		4
	RHN-A/7			1 (25%)	3 (75%)		4
	TAT-052/1	1 (100%)					1
	TAT-051/2				1 (100%)		1
	TAT-043	1 (100%)					1
	TGW-A/5	1 (33%)		1 (33%)	1 (33%)		3
	TGW-A/surface	1 (50%)			1 (50%)		2
	DEL-B/12				9 (100%)		9
	IKH-A/5				1 (50%)	1 (50%)	2
	LOH-C/1α	1 (100%)					1
	LOH-C/1β				1 (100%)		1

Table 24. M3 Labial Anteroloph.

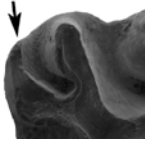
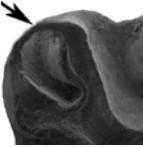
Localities				N
<i>Y. suni</i>	HTE-014-018	3 (75%)	1 (25%)	4
	HTE-008	1 (100%)		1
	HTE-009	1 (100%)		1
<i>Y. deflexus</i>	HTS-011/1	1 (50%)	1 (50%)	2
	HTE-057	2 (100%)		2
	HTSE-009/1	2 (100%)		2
	HTSE-009+013	5 (56%)	4 (44%)	9
	RHN-023	1 (100%)		1
	RHN-A/7	2 (40%)	3 (60%)	5
	TAT-E/27		1 (100%)	1
	TAT-052/1		2 (100%)	2
	TAT-043	1 (33%)	2 (67%)	3
	TGW-A/5		2 (100%)	2
	TGW-A/surface	4 (80%)	1 (20%)	5
	DEL-B/12	6 (100%)		6
	IKH-A/5	2 (100%)		2
	LOH-C/1 α		2 (100%)	2
	LOH-C/1 β		2 (100%)	2
<i>Y. birgeri</i>	TAT-051/2	1 (50%)	1 (50%)	2

Table 25. M3 Lingual Anteroloph.

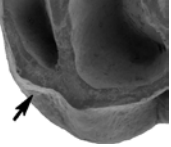
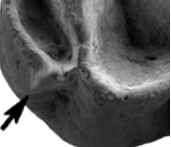
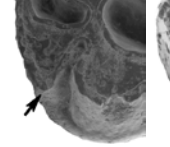
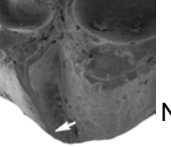
Localities						N
<i>Y. suni</i>	HTE-014-018	4 (100%)				4
	HTE-008	1 (100%)				1
	HTE-009	1 (100%)				1
<i>Y. deflexus</i>	HTS-011/1	2 (100%)				2
	HTE-057	2 (100%)				2
	HTSE-009/1	1 (50%)	1 (50%)			2
	HTSE-009+013	4 (44%)	3 (33%)	2 (22%)		9
	RHN-023	2 (100%)				2
	RHN-A/7	3 (60%)	2 (40%)			5
	TAT-E/27	1 (100%)				1
	TAT-052/1	1 (50%)	1 (50%)			2
	TAT-043	1 (33%)	1 (33%)	1 (33%)		3
	TGW-A/5	2 (100%)				2
	TGW-A/surface	4 (80%)		1 (20%)		5
	DEL-B/12	6 (100%)				6
	IKH-A/5	2 (100%)				2
	LOH-C/1 α			1 (50%)	1 (33%)	2
	LOH-C/1 β	1 (50%)		1 (50%)		2
<i>Y. birgeri</i>	TAT-051/2	2 (100%)				2

Table 26. M3 Protoloph.

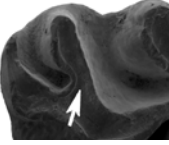
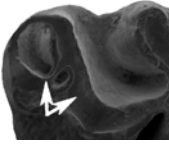
Localities				N
<i>Y. suni</i>	HTE-014-018	4 (100%)		4
	HTE-009	1 (100%)		1
<i>Y. deflexus</i>	HTS-011/1	2 (100%)		2
	HTE-057	1 (50%)	1 (50%)	2
	HTSE-009/1	2 (100%)		2
	HTSE-009+013	9 (100%)		9
	RHN-023	2 (100%)		2
	RHN-A/7	4 (80%)	1 (20%)	5
	TAT-E/27	1 (100%)		1
	TAT-042	1 (100%)		1
	TAT-052/1	2 (100%)		2
	TAT-043	3 (100%)		3
	TGW-A/5	2 (100%)		2
	TGW-A/surface	6 (100%)		6
	DEL-B/12	6 (100%)		6
	IKH-A/5	2 (100%)		2
	LOH-C/1 α	2 (100%)		2
	LOH-C/1 β	2 (100%)		2
<i>Y. birgeri</i>	TAT-051/2	2 (100%)		2

Table 27. M3 Protoloph orientation.

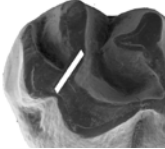
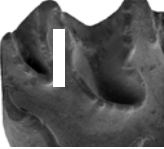
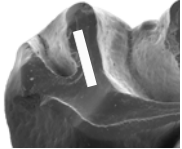
Localities					N
<i>Y. suni</i>	HTE-014-018		3 (75%)	1 (25%)	4
	HTE-009		1 (100%)		1
<i>Y. deflexus</i>	HTS-011/1		2 (100%)		2
	HTE-057		1 (100%)		1
	HTSE-009/1	1 (50%)		1 (50%)	2
	HTSE-009+013	1 (11%)	7 (78%)	1 (11%)	9
	RHN-023		2 (100%)		2
	RHN-A/7		3 (60%)	2 (40%)	5
	TAT-E/27		1 (100%)		1
	TAT-042		1 (100%)		1
	TAT-052/1		1 (50%)	1 (50%)	2
	TAT-043		3 (100%)		3
	TGW-A/5		1 (50%)	1 (50%)	2
	TGW-A/surface		6 (100%)		6
	DEL-B/12		6 (100%)		6
	IKH-A/5		2 (100%)		2
	LOH-C/1 α			2 (100%)	2
	LOH-C/1 β		2 (100%)		2
<i>Y. birgeri</i>	TAT-051/2		1 (100%)		1

Table 28. M3 morphotypes of the metaloph (after Vianey-Liaud et al., 2006 and Schmidh-Kittler et al. 2007).


Localities					N	
<i>Y. suni</i>	HTE-014-018	2 (50%)	2 (50%)		4	
	HTE-009	1 (100%)			1	
	HTS-011/1			2 (100%)	2	
	HTE-057			2 (100%)	2	
	HTSE-009/3	1 (100%)			1	
	HTSE-009/1			1 (100%)	1	
	HTSE-009+013	2 (25%)	3 (38%)	3 (38%)	8	
	RHN-023		1 (50%)	1 (50%)	2	
	RHN-A/7		3 (60%)	2 (40%)	5	
	TAT-E/27			1 (100%)	1	
	TAT-052/1	1 (50%)		1 (50%)	2	
	TAT-043			3 (100%)	3	
	TGW-A/5			2 (100%)	2	
	TGW-A/surface	3 (50%)		3 (50%)	6	
<i>Y. deflexus</i>	DEL-B/12	6 (100%)			6	
	IKH-A/5	1 (50%)	1 (50%)		2	
	LOH-C/1 α			2 (100%)	2	
	LOH-C/1 β			2 (100%)	2	
	<i>Y. birgeri</i>	TAT-051/2		2 (100%)		2

Table 29. M3 Metaloph.

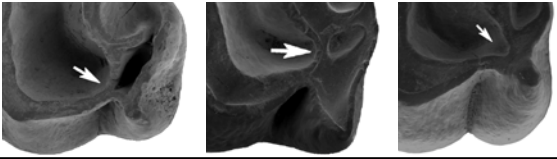
Localities					N	
<i>Y. suni</i>	HTE-014-018	2 (50%)	2 (50%)		4	
	HTE-009	1 (100%)			1	
	HTS-011/1			2 (100%)	2	
	HTE-057			2 (100%)	2	
	HTSE-009/3	1 (100%)			1	
	HTSE-009/1			1 (100%)	1	
	HTSE-009+013	2 (25%)	2 (25%)	4 (50%)	8	
	RHN-023			2 (100%)	2	
	RHN-A/7		3 (60%)	2 (40%)	5	
	TAT-E/27			1 (100%)	1	
	TAT-052/1	1 (50%)		1 (50%)	2	
	TAT-043			3 (100%)	3	
	TGW-A/5			2 (100%)	2	
	TGW-A/surface	3 (50%)		3 (50%)	6	
<i>Y. deflexus</i>	DEL-B/12	6 (100%)			6	
	IKH-A/5	1 (100%)			1	
	LOH-C/1 α			2 (100%)	2	
	LOH-C/1 β			2 (100%)	2	
	<i>Y. birgeri</i>	TAT-051/2		2 (100%)		2

Table 30. M3 Metaloph orientation.

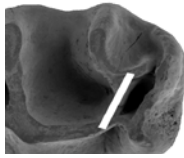
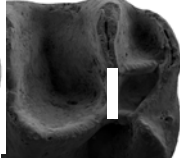
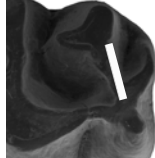
Localities					N
<i>Y. suni</i>	HTE-014-018		2 (50%)	2 (50%)	4
	HTE-009		1 (100%)		1
	HTS-011/1			2 (100%)	2
	HTE-057			2 (100%)	2
	HTSE-009/3	1 (100%)			1
	HTSE-009/1			1 (100%)	1
	HTSE-009+013		1 (13%)	7 (88%)	8
	RHN-023			2 (100%)	2
	RHN-A/7		1 (20%)	4 (80%)	5
	TAT-E/27			1 (100%)	1
<i>Y. deflexus</i>	TAT-042		1 (100%)		1
	TAT-052/1		1 (50%)	1 (50%)	2
	TAT-043			2 (100%)	2
	TGW-A/5			2 (100%)	2
	TGW-A/surface		2 (33%)	4 (67%)	6
	DEL-B/12		6 (100%)		6
	IKH-A/5		1 (50%)	1 (50%)	2
	LOH-C/1 α			2 (100%)	2
	LOH-C/1 β			2 (100%)	2

Table 31. M3 Additional structures and crests

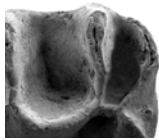
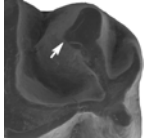
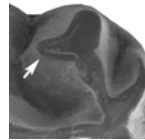
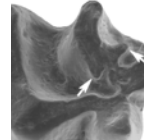
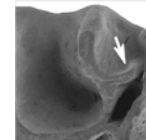
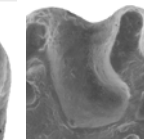
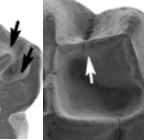
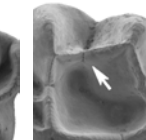
Localities										N
<i>Y. suni</i>	HTE-014-018	4 (100%)								4
	HTE-008	1 (100%)								1
	HTE-009	1 (33%)		1 (33%)	1 (33%)					3
	HTS-012			1 (100%)						1
<i>Y. deflexus</i>	HTS-011/1					1 (50%)		1 (50%)		2
	HTE-057					1 (50%)			1 (50%)	2
	HTSE-009/3				1 (100%)					1
	HTSE-009/1			1 (100%)						1
	HTSE-009+013							1 (13%)	7 (88%)	8
	RHN-023	2 (100%)								2
	RHN-A/7		1 (20%)	2 (40%)					2 (40%)	5
	TAT-E/27								1 (100%)	1
	TAT-052/1								2 (100%)	2
	TAT-043								3 (100%)	3
	TGW-A/5				2 (100%)					2
	TGW-A/surface				1 (17%)	1 (17%)	2 (33%)	1 (17%)	1 (17%)	6
	DEL-B/12				5 (71%)		2 (29%)			7
	IKH-A/5	1 (50%)			1 (50%)					2
	LOH-C/1 α								2 (100%)	2
	LOH-C/1 β			1 (50%)					1 (50%)	2
<i>Y. birgeri</i>	TAT-051/2						1 (50%)	1 (50%)	2	

Table 32. Morphology M3

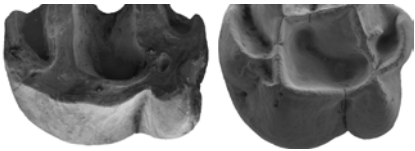
Localities			N
HTS-011/1		2 (100%)	2
HTE-057		1 (100%)	1
HTSE-009/3		1 (100%)	1
HTSE-009/1	1 (50%)	1 (50%)	2
HTSE-009+013	2 (22%)	7 (78%)	9
RHN-023	2 (100%)		2
RHN-A/7	2 (40%)	3 (60%)	5
TAT-E/27		1 (100%)	1
<i>Y. deflexus</i> TAT-042	1 (100%)		1
TAT-052/1	1 (50%)	1 (50%)	2
TAT-043		3 (100%)	3
TGW-A/5		2 (100%)	2
TGW-A/surface	4 (67%)	2 (33%)	6
DEL-B/12	5 (83%)	1 (17%)	6
IKH-A/5	2 (100%)		2
LOH-C/1 α		2 (100%)	2
LOH-C/1 β		2 (100%)	2

Table 33. M3 Depth of the anterior groove.

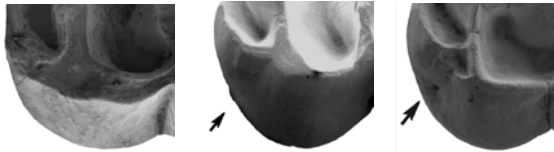
Localities				N	
<i>Y. suni</i>	HTE-014-018	3 (75%)	1 (25%)	4	
	HTE-008	2 (100%)		2	
	HTE-009	3 (100%)		3	
	HTS-012	1 (100%)		1	
<i>Y. deflexus</i>	HTS-011/1		1 (50%)	1 (50%)	2
	HTE-057	1 (50%)		1 (50%)	2
	HTSE-009/1		1 (50%)	1 (50%)	2
	HTSE-009+013		1 (11%)	8 (89%)	9
	RHN-023	2 (100%)			2
	RHN-A/7		2 (40%)	3 (60%)	5
	TAT-E/27			1 (100%)	1
	TAT-042	1 (100%)			1
	TAT-052/1	1 (50%)	1 (50%)		2
	TAT-043			5 (100%)	5
	TGW-A/5			2 (100%)	2
	TGW-A/surface	4 (67%)		2 (33%)	6
	DEL-B/12	5 (83%)	1 (17%)		6
	IKH-A/5	1 (50%)	1 (50%)		2
	LOH-C/1 α			2 (100%)	2
	LOH-C/1 β			2 (100%)	2
<i>Y. birgeri</i> TAT-051/2	2 (100%)			2	

Table 34. M3 Orientation of the anterior groove

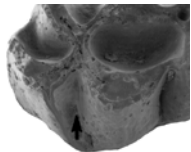
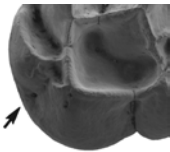
Localities				N
<i>Y. suni</i>	HTE-014-018		1 (100%)	1
	HTS-011/1	1 (50%)	1 (50%)	2
	HTE-057		1 (100%)	1
	HTSE-009/1	1 (50%)	1 (50%)	2
	HTSE-009+013	1 (11%)	8 (89%)	9
	RHN-A/7		5 (100%)	5
	TAT-E/27		1 (100%)	1
<i>Y. deflexus</i>	TAT-052/1		1 (100%)	1
	TAT-043		3 (100%)	3
	TGW-A/5		2 (100%)	2
	TGW-A/surface		2 (100%)	2
	DEL-B/12		1 (100%)	1
	IKH-A/5		1 (100%)	1
	LOH-C/1 α	1 (50%)	1 (50%)	2
	LOH-C/1 β		2 (100%)	2

Table 35. M3 Orientation of the Sinus

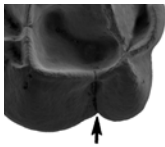
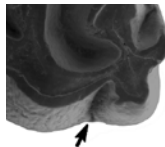
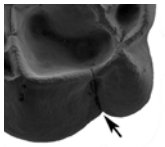
Localities					N
<i>Y. suni</i>	HTE-014-018	1 (25%)	3 (75%)		4
	HTE-008		1 (100%)		1
	HTE-009	2 (100%)			2
	HTS-012	1 (100%)			1
	HTS-011/1	2 (100%)			2
	HTE-057	2 (100%)			2
	HTSE-009/3	1 (100%)			1
	HTSE-009+013	7 (78%)	1 (11%)	1 (11%)	9
	RHN-023	1 (50%)	1 (50%)		2
	RHN-A/7	2 (33%)	2 (33%)	2 (33%)	6
	TAT-E/27	1 (100%)			1
<i>Y. deflexus</i>	TAT-042	1 (100%)			1
	TAT-052/1	1 (50%)	1 (50%)		2
	TAT-043	1 (33%)	2 (67%)		3
	TGW-A/5	2 (100%)			2
	TGW-A/surface	5 (100%)			5
	DEL-B/12	5 (83%)	1 (17%)		6
	IKH-A/5		1 (50%)	1 (50%)	2
	LOH-C/1 α	2 (100%)			2
	LOH-C/1 β	2 (100%)			2
<i>Y. birgeri</i>	TAT-051/2	2 (100%)			2

Table 36. p4 Spur of the Posterior arm of the metaconid.

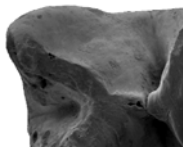
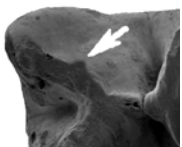
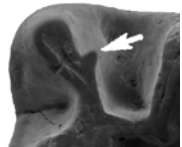
Localities					N
<i>Y. suni</i>	HTE-008	1 (100%)			1
	HTS-011/1			1 (100%)	1
	HTSE-009/2	1 (100%)			1
	HTSE-009+013			1 (100%)	1
	RHN-023	4 (80%)		1 (20%)	5
	RHN-A/7	5 (100%)			5
	TAT-052/1	1 (50%)		1 (50%)	2
	TAT-051/2	1 (50%)		1 (50%)	2
<i>Y. deflexus</i>	TAT-043	1 (100%)			1
	TAT-W/top	1 (100%)			1
	TGW-A/5	1 (100%)			1
	TGW-A/surface	1 (50%)		1 (50%)	2
	DEL-B/12	6 (67%)	2 (22%)	1 (11%)	9
	IKH-B/5	6 (67%)	2 (22%)	1 (11%)	9
	IKH-A/5	2 (100%)			2
	LOH-C/1 α	2 (100%)			2
	LOH-C/1 β	1 (100%)			1

Table 37. p4 Hypoconid.

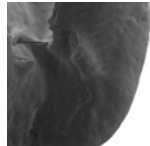
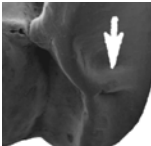
Localities				N
<i>Y. suni</i>	HTE-008		1 (100%)	1
	HTS-011/1		1 (100%)	1
	HTE-057		1 (100%)	1
	HTSE-009/2		1 (100%)	1
	HTSE-009+013		1 (100%)	1
	RHN-023	1 (33%)	2 (67%)	3
	RHN-A/7	1 (20%)	4 (80%)	5
	TAT-052/1	1 (50%)	1 (50%)	2
	TAT-051/2		2 (100%)	2
<i>Y. deflexus</i>	TAT-043	1 (100%)		1
	TAT-W/top		1 (100%)	1
	TGW-A/5		1 (100%)	1
	TGW-A/surface	2 (100%)		2
	DEL-B/12	8 (100%)		8
	IKH-B/5	8 (100%)		8
	IKH-A/5	1 (50%)	1 (50%)	2
	LOH-C/1 α	1 (50%)	1 (50%)	2
	LOH-C/1 β	1 (100%)		1

Table 38. p4 Hypolophid.



Localities				N
<i>Y. suni</i>	HTE-008		1 (100%)	1
	HTS-011/1		1 (100%)	1
	HTE-057		1 (100%)	1
	HTSE-009/2		1 (100%)	1
	HTSE-009+013		1 (100%)	1
	RHN-023		4 (100%)	4
	RHN-A/7	4 (80%)	1 (20%)	5
	TAT-052/1		1 (100%)	1
	TAT-051/2		2 (100%)	2
<i>Y. deflexus</i>	TAT-043		1 (100%)	1
	TAT-W/top		1 (100%)	1
	TGW-A/5		1 (100%)	1
	TGW-A/surface	1 (50%)	1 (50%)	2
	DEL-B/12	7 (78%)	2 (22%)	9
	IKH-B/5	7 (78%)	2 (22%)	9
	IKH-A/5		2 (100%)	2
	LOH-C/1 α	2 (100%)		2
	LOH-C/1 β	1 (100%)		1

Table 39. p4 Hypoconulid.



Localities				N
<i>Y. suni</i>	HTE-008		1 (100%)	1
	HTS-011/1		1 (100%)	1
	HTE-057		1 (100%)	1
	HTSE-009/2		1 (100%)	1
	HTSE-009+013		1 (100%)	1
	RHN-023	2 (50%)	2 (50%)	4
	RHN-A/7	4 (80%)	1 (20%)	5
	TAT-052/1	1 (100%)		1
	TAT-051/2		2 (100%)	2
<i>Y. deflexus</i>	TAT-043		1 (100%)	1
	TAT-W/top		1 (100%)	1
	TGW-A/5	1 (100%)		1
	TGW-A/surface	1 (50%)	1 (50%)	2
	DEL-B/12	8 (100%)		8
	IKH-B/5	8 (100%)		8
	IKH-A/5		1 (100%)	1
	LOH-C/1 α		1 (100%)	1
	LOH-C/1 β	1 (100%)		1

Table 40. m1 Anterior cingulid.

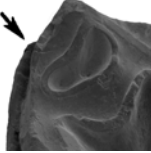
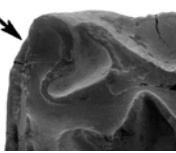
Localities				N
<i>Y. suni</i>	HTE-014-018	2 (67%)	1 (33%)	3
	HTS-011/1		2 (100%)	2
	HTE-057		1 (100%)	1
	HTSE-009/2		1 (100%)	1
	HTSE-009+013	1 (33%)	2 (67%)	3
	RHN-023	1 (33%)	2 (67%)	3
	RHN-A/7	3 (43%)	4 (57%)	7
	TAT-051/2	2 (100%)		2
<i>Y. deflexus</i>	TAT-043		1 (100%)	1
	TAT-W/top	2 (100%)		2
	TGW-A/5		1 (100%)	1
	DEL-B/12		1 (100%)	1
	IKH-B/5	1 (100%)		1
	IKH-A/5		1 (100%)	1
	LOH-C/1α		2 (100%)	2
	LOH-C/1β		1 (100%)	1

Table 41. m1 Mesolophid.

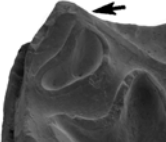
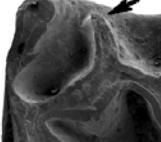
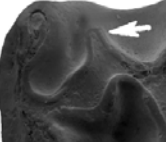
Localities					N
<i>Y. suni</i>	HTE-014-018	3 (100%)			3
	HTS-011/1	2 (100%)			2
	HTE-057	1 (100%)			1
	HTSE-009/2	1 (100%)			1
	HTSE-009+013	3 (100%)			3
	RHN-023	2 (67%)	1 (33%)		3
	RHN-A/7	6 (100%)			6
<i>Y. deflexus</i>	TAT-051/2	1 (100%)			1
	TAT-043	1 (100%)			1
	TAT-W/top	1 (100%)			1
	TGW-A/5	1 (100%)			1
	DEL-B/12	2 (100%)			2
	IKH-B/5	1 (100%)			1
	IKH-A/5			1 (100%)	1
	LOH-C/1α	1 (100%)			1

Table 42. m1 Hypolophid

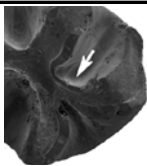
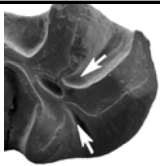
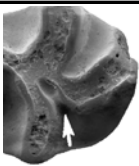
Localities					N
<i>Y. suni</i>	HTE-014-018	1 (100%)			1
	HTE-057	1 (100%)			1
	HTSE-009+013	1 (100%)			1
<i>Y. deflexus</i>	RHN-023	1 (50%)		1 (50%)	2
	RHN-A/7	4 (80%)		1 (20%)	5
	TAT-051/2	1 (100%)			1
	TGW-A/5	1 (100%)			1
	DEL-B/12		1 (100%)		1
	IKH-A/5			1 (100%)	1

Table 43. m2 Anterior cingulid.

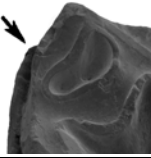
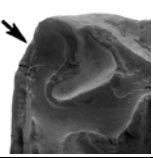
Localities				N
<i>Y. suni</i>	HTE-014-018		1 (100%)	1
	HTE-008		1 (100%)	1
	HTE-009		2 (100%)	2
<i>Y. deflexus</i>	HTS-011/1		1 (100%)	1
	HTE-057	1 (33%)	2 (67%)	3
	HTSE-009/2		1 (100%)	1
	HTSE-009+013		5 (100%)	5
	RHN-023		3 (100%)	3
	RHN-A/7	2 (18%)	9 (82%)	11
	TAT-052/1	1 (100%)		1
	TAT-051/2		2 (100%)	2
	TAT-043		1 (100%)	1
	TAT-W/top		1 (100%)	1
	TGS	1 (100%)		1
	TGW-A/5		2 (100%)	2
	TGW-A/surface		2 (100%)	2
	DEL-B/12		7 (100%)	7
	LOH-B/3	1 (100%)		1
	LOH-C/1?	1 (50%)	1 (50%)	2
LOH-C/1?		1 (100%)	1	

Table 44. m2 Mesolophid.

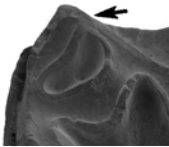
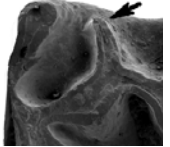
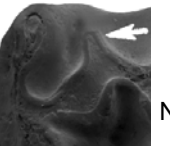
Localities					N
<i>Y. suni</i>	HTE-014-018	1 (50%)	1 (50%)		2
	HTE-008		1 (100%)		1
	HTE-009	2 (100%)			2
<i>Y. deflexus</i>	HTS-011/1	1 (100%)			1
	HTE-057	3 (100%)			3
	HTSE-009/2	1 (100%)			1
	HTSE-009+013	5 (83%)	1 (17%)		6
	RHN-023	3 (100%)			3
	RHN-A/7	10 (83%)	1 (8%)	1 (8%)	12
	TAT-052/1		1 (100%)		1
	TAT-051/2	1 (100%)			1
	TAT-043	1 (100%)			1
	TAT-W/top	1 (100%)			1
	TGW-A/5	2 (67%)		1 (33%)	3
	TGW-A/surface	2 (100%)			2
	DEL-B/12	7 (100%)			7
	IKH-B/5	2 (100%)			2
	LOH-B/3			1 (100%)	1
	LOH-C/1 α	1 (100%)			1
	LOH-C/1 β	1 (50%)		1 (50%)	2

Table 45. m2 Hypolophid.

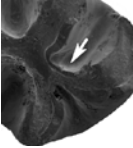
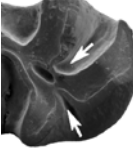
Localities				N
<i>Y. suni</i>	HTE-014-018	2 (100%)		2
	HTE-008	1 (100%)		1
<i>Y. deflexus</i>	HTS-011/1	1 (100%)		1
	HTE-057	3 (100%)		3
	HTSE-009/2	1 (100%)		1
	HTSE-009+013	5 (100%)		5
	RHN-023	2 (67%)	1 (33%)	3
	RHN-A/7	10 (100%)		10
	TAT-051/2	2 (100%)		2
	TAT-043	1 (100%)		1
	TAT-W/top		1 (100%)	1
	TGW-A/5	2 (100%)		2
	TGW-A/surface	2 (100%)		2
	DEL-B/12	5 (83%)	1 (17%)	6
	IKH-B/5	2 (100%)		2
	LOH-B/3	1 (100%)		1
	LOH-C/1 α	1 (100%)		1
	LOH-C/1 β	1 (100%)		1

Table 46. m3 Anterior cingulid.

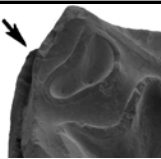
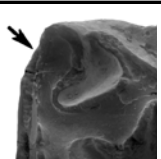
Localities				N
<i>Y. suni</i>	HTE-008		1 (100%)	1
	HTE-009		3 (100%)	3
	HTS-011/1		1 (100%)	1
	HTSE-009/3		1 (100%)	1
	HTSE-009/2		1 (100%)	1
	HTSE-009+013	1 (50%)	1 (50%)	2
	RHN-023	1 (33%)	2 (67%)	3
	RHN-A/7	2 (33%)	4 (67%)	6
<i>Y. deflexus</i>	TAT-043		1 (100%)	1
	TAT-W/top	1 (100%)		1
	TGS		1 (100%)	1
	TGW-A/surface		1 (100%)	1
	DEL-B/12	2 (13%)	13 (87%)	15
	IKH-A/5	2 (67%)	1 (33%)	3
	LOH-C/1 β	1 (33%)	2 (67%)	3

Table 47. m3 Mesolophid.

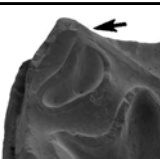
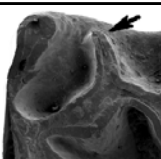
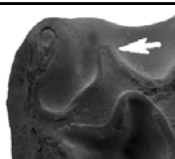
Localities					N
<i>Y. suni</i>	HTE-014-018			2 (100%)	2
	HTE-008		1 (100%)		1
	HTE-009	2 (50%)	2 (50%)		4
	HTS-011/1	1 (100%)			1
	HTE-057	1 (100%)			1
	HTSE-009/3	1 (100%)			1
	HTSE-009/2	1 (100%)			1
	HTSE-009+013	2 (100%)			2
	RHN-023	2 (67%)	1 (33%)		3
	RHN-A/7	7 (88%)		1 (13%)	8
	TAT-051/2	1 (100%)			1
<i>Y. deflexus</i>	TAT-043	1 (100%)			1
	TAT-W/top	1 (100%)			1
	TGS	1 (100%)			1
	TGW-A/5	1 (100%)			1
	TGW-A/surface	2 (100%)			2
	DEL-B/12	1 (7%)	14 (93%)		15
	IKH-B/5	2 (100%)			2
	IKH-A/5		2 (67%)	1 (33%)	3
	LOH-C/1 α	1 (100%)			1
	LOH-C/1 β	2 (67%)		1 (33%)	3

Table 48. m3 Hypolophid.

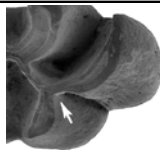
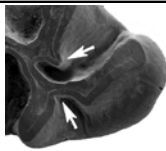
Localities				N
<i>Y. suni</i>	HTE-014-018	2 (100%)		2
	HTE-008	1 (100%)		1
	HTE-009	3 (100%)		3
<i>Y. deflexus</i>	HTS-011/1	2 (100%)		2
	HTE-057	1 (100%)		1
	HTSE-009/3	1 (100%)		1
	HTSE-009/2	1 (100%)		1
	HTSE-009+013	2 (100%)		2
	RHN-023	2 (100%)		2
	RHN-A/7	7 (100%)		7
	TAT-051/2	1 (100%)		1
	TAT-043	1 (100%)		1
	TGS	1 (100%)		1
	TGW-A/5	1 (100%)		1
	TGW-A/surface	1 (100%)		1
	DEL-B/12	11 (73%)	4 (27%)	15
	IKH-B/5	2 (100%)		2
	IKH-A/5		1 (100%)	1
	LOH-C/1 α	1 (100%)		1
	LOH-C/1 β	4 (100%)		4

Table 49. dp4 Anterior cingulid.

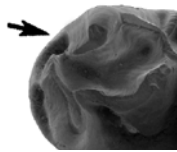
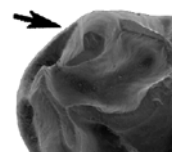
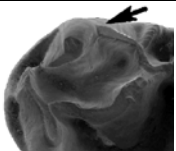
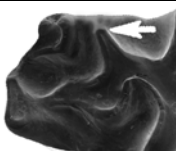
Localities				N
<i>Y. suni</i>	HTE-014-018			
	UNCH-A/4		1 (100%)	1
<i>Y. deflexus</i>	RHN-023		1 (100%)	1
	RHN-A/7	1 (50%)	1 (50%)	2
	LOH-C/1 α		1 (100%)	1

Table 50. dp4 Mesolophid.

Localities				N
<i>Y. suni</i>	HTE-014-018			
	UNCH-A/4		1 (100%)	1
<i>Y. deflexus</i>	RHN-A/7	2 (100%)		2
	TAT-042	1 (100%)		1