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## Article:

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Y

Y

Amelogenin, X isoform [Odocoileus virginianus texanus]

P02817-2 Amelogenin, X isoform 2, Also known as: LRAP, [Bos taurus]

170 P ...I Q P L P Q Ρ L Ρ Y G Y Е Р м... 50 P ...M I R ΗP L P P M L P D L P... y₅ R y₄ H y₂ P ye I y₃ P ox M L a bз b bs ī R Ρ Ρ Р н Ρ L bz b b b b b<sub>7</sub> y3 P b7 y₂ P yı ox M ye y: P P н L I R b b b ox M b9 Ρ Ρ P b7 ī R н P bs L L be ox IM b ys P y₂ L yı P y₄ P H b₃ L be T R Ρ Р

ox P

> y₃ P

¥۹ F

 ys
 y4

 F
 P

 b11
 b12

 ys
 y4

 F
 P

 b14
 b15

LF

ys P P L bs bo bio

PIF

Р

 ys
 y7

 P
 P
 L

 b11
 b12
 b13

Q

de Q b7

P b3

yıs P

y14 P bs

de Q P b2 b3

I

de Q P b4 bs

yıı yıo P P bs

P L bs b7

L

ox de M Q br bs

ox de M Q P

ys y2 ox de M Q

γ<sub>3</sub> de ox M Q P P M

P M

L

РМ Q Р L Р Р М...

Р

y4 y3 L P

P

yı P









A0A090AZL1 AMELY, Cervus nippon AHZ86993 AMELY, Cervus elaphus

Y G М L R Н Ρ т S Y Y т s Y G y1 y2 y ox M т R Ρ Y L Н b b: h. h y١ ox M L R Ρ Т s Y н Y b b₄ be b bs b y2 y1 V7 ¥6 y5 y3 P b₄ S b7 T b₀ Н L R Y Y h: hs bz

S



CGG ref.	GNM specimen	Morphological	Anatomy	Ancient	Protein extr.	Protein extr.	Protein extr.	Phylogenetic
numb.	number	identification*		DNA	Method A	Method B	Method C	analysis
16486	Dm.bXI.sqA6.V	Canis etruscus	P4 sin.				∘E+D	
16626	Dm.6/154.2/4.A4.17	Artiodactyla	tibia sin.			οB		
16628	Dm.7/154.2.A2.27	Cervidae	mc III&IV dex.			●B†		
16629	Dm.5/154.3.A4.32	Cervidae	hemimandible sin. with dp2_dp3_dp4_m1			οB	●E+D	
16630	Dm.6/151.4.A4.12	Pseudodama nestii	hemimandible dex. with p2-m3			οB	∘D, ●E	
16631	Dm.69/64.3.B1.53	Cervidae	maxilla sin. with P3			οB	∘D, ●E	
16632	Dm.5/154.2.A4.38	Equus stenonis	i3 dex.				●E+D	Fig. S10
16633	Dm.5/153.3.A2.33	Equus stenonis	mc III & mc II sin.				◦ <b>B</b>	C C
16634	Dm.7/151.2.B1/A4.1	Equus stenonis	m/1 or m/2 dex.				∘D, ●E	
16635	Dm.5/157.profile cleaning	Stephanorhinus sp.	m/1 sin.	0			∘D, ●E	Fig. 4, Fig. S11
16636	Dm.6/153.1.A4.13	Rhinocerotidae	tibia dex.			οB		
16637	Dm.7/154.2.A4.8	Bovidae	mt III&IV sin.			●B†		
16638	Dm.5/154.1.B1.1	Bovidae	hemimandible dex. with p3-m3			οB	∘D, ●E	Fig. S12
16639	Dm.8/154.4.A4.22	Bovidae	maxilla dex. with P2- M2				∘D, ●E	Fig. S13
16640	Dm.6/151.2.A4.97	Bison georgicus	mt III&IV sin.			◦ <b>B</b>		
16641	Dm.8/152.3.B1.2	Bison georgicus	m3 dex.				∘D, ●E	Fig. S14
16642	Dm.8/153.4.A4.5	Canis etruscus	hemimandible sin. with p1-m2				∘D, ●E	-
16856	Dm.M6/7.II.296	Cervidae	m2 sin.	0	●D†	∘D, ●E	●E+D	
16857	Dm.bXI.profile cleaning	Indet.	long bone fragment of a herbivore	0	•B†	οB	οB	Fig. S15, EDF6
16858	Dm.bXI.North.B1a. collection	Cervidae	metapodium fragment		οB	οB	οB	
16859	D4.collection	Indet.	fragments of pelvis and ribs of a large mammal	0	○ <b>B</b>	οB	οB	
16860	Dm.65/62.1.A1. collection	Cervidae	P4 sin.	0		∘D, ●E	∘D, ●E	
16861	Dm.64/63.1.B1z. collection	Equus stenonis	fragment of an upper tooth			∘D, ●E	∘D, ●E	
Neg. contr. (blank)					NC	NC	NC	

Specimen	Protein Name	Sequence	Razor and	Matched	Coverage after	Final coverage after MaxQuant and	Final
10000	0	length	unique peptides	spectra	MaxQuant searcnes (%)	PEAKS searches (%)	coverage (aa)
16628	Collagen alpha-1(I)	1158	5	8	3.2	3.2	37
10629	Amelogenin X	209	79 54	190	30.8	30.8	11
	Enamolin	440 1120	58	04 133	20.0	23.0	73
	Collagen alpha-1(l)	1453	30	3	2.0	2.0	29
	Collagen alpha-1(III)	1464	2	3	1.0	14	20
	Amelotin	212	2	2	4.7	4.7	10
16630	Enamelin	1129	180   3	530   5	11.8   2.7	15.4	174
	Ameloblastin	440	105	231	30.9	31.4	138
	Amelogenin X	213	116	529	62.0	62.9	134
	Amelogenin Y	192	4	9	13.0	22.9	44
	Amelotin	212	5	6	8.0	8.0	17
16631	Enamelin	916	175	751	11.0	11.7	107
	Amelogenin X	213	156	598	48.8	61.5	131
	Amelogenin Y	90	5 71	10	15.0	25.0	23
	AME 20	440 490	11	100	24.1	20.2	10
16632	Fnamelin	402	401	2160	17 9	0.9 10 1	219
10002	Amelogenin X	192	280	960	84.4	84.4	162
	MMP20	424	49	67	33.3	33.3	141
	Serum albumin	607	11	18	6.1	6.1	37
	Collagen alpha-1(I)	1513	4	4	2.6	2.6	40
16634	Amelogenin X	185	68	157	53.5	53.5	99
	Ameloblastin	440	47	58	23.4	23.4	103
	Enamelin	920	33	87	4.5	4.5	41
1000-	MMP20	483	4	4	5.6	5.6	27
16635	Amelogenin X	206	394   3	2793   5	73.8   7.8	85.9	177
	Enamelin	1150	382  Z	2900   Z	18.3   1.0	25.1	289
	Amelobiastin	44Z 267	131	403	31.3	39.3	20
	Sorum albumin	207	20	64	9.9 18 5	9.9 24 5	20
		483	15	25	11.8	15 3	74
16637	Collagen alpha-1(I)	1453	2	2	1.7	1.7	25
	Collagen alpha-1(II)	1421	2	2	1.9	1.9	27
	Collagen alpha-1(III)	1464	2	2	1.6	1.6	23
16638	Enamelin	1129	235   7	1155   13	11.8   4.7	12.9	146
	Amelogenin X	192	185   3	734   5	52.0   10.9	60.4	116
	Ameloblastin	440	64   2	120   4	30.0   5.7	36.4	160
(0000	MMP20	481	6	7	8.1	9.1	44
16639	Enamelin	1129	202	726	12.0	12.6	142
	Amelogenin X	213	167	624 155	59.Z	07.0 20.5	144
		440 102	00 13	100	20.0 18.8	30.5 18.8	104
16641		213	Q1	251	64.3	65.3	139
10041	Ameloblastin	440	69	122	28.9	28.9	100
	Enamelin	1129	24	75	7.8	7.8	88
	Amelotin	212	3	3	7.1	7.1	15
16642	Amelogenin X	185	89	245	42.7	42.7	79
	Enamelin	733	14	19	2.5	2.5	18
	Ameloblastin	421	3	3	7.1	7.1	30
	MMP20	483	2	2	3.5	3.5	17
16856	Amelogenin X	209	66   4	365   25	38.8	45.5	95
	Enamelin	916	58   13	153   70	8.2	10.2	93
	Ameloblastin	440	21	31	14.8	14.8	65 177
	Collagen alpha-1(I)	1047	0   IU 1   8	510	14.0 10.6	10.9	112
	Serum albumin	583	410	0112	16.6	16.6	97
	Amelogenin Y	90	3	7	10.0	10.0	9
16857	Collagen alpha-1(I)	1047	18   14	24   18	21.7	23.4	245
	Collagen alpha-2(I)	1274	16 11	17 11	17.7	24.3	310
16860	Amelogenin X	192	46	98	30.7	32.3	62
	Ameloblastin	440	19	37	9.1	9.1	40
	Enamelin	900	15	25	3.8	3.8	34
16861	Amelogenin X	185	14	15	36.8	38.9	72
	Ameloblastin	343	2	2	4.4	4.4	15
New Oractor O 1		915	2	2	1.2	1.2	11
Neg. Contr. Gr. 1: 235, 275, 706	NU						
Neg. Contr. Gr. 2:	ND						
	Amalagaria	400	~	7	40.0	40.0	00
Neg. Contr. Gr. 3: 1214, 1218	Amelogenin X	122	5	1	18.0	18.0	22