

Friedrich & Beutel (2008)	this study	Büsse et al. (2013)	Asahina (1954)	Willkommen (2008)	Wittig (1955)	Matsuda (1970)
Prothorax						
ldlm1	x	?	3	?	l dlm 10	op-t 3
ldlm2	-	?	-	?	0 dlm 1	op-t 2
ldlm3	x	?	2	?	l dlm 11b	cv(d)-t 1, t 14
ldlm4	x	?	1	?	0 dlm 2	op-t 1
ldlm5	-	?	-	?	l dlm 12	t 12
ldlm6	-	?	-	?	l dlm 12?	t 13
ldvm1	-	?	-	?	0 lm 7	op-cv 1
ldvm2	-	?	-	?	0 lm 7	op-cv 2
ldvm3	-	?	-	?	0 lm 8	op-cv 3
ldvm4	-	?	-	?	0 lm 5	t-s(cv) 1?
ldvm5	-	?	-	?	-	t-cv 1
ldvm6	-	?	-	?	0 lm 6	t-cv 2
ldvm7	-	?	-	?	-	t-cv 3
ldvm8	-	?	-	?	-	t-s(cv) 9
ldvm9	-	?	-	?	-	op-s 2, p-s 3
ldvm10	x	?	-	?	l ism 22	t-s 1
ldvm11	-	?	-	?	l ism 24	t-s 8
ldvm12	-	?	-	?	-	t-s 2
ldvm13	-	?	-	?	l dvm 15	t-ti(cx) 2
ldvm14	-	?	-	?	l dvm 16	t-ti(cx) 3
ldvm15	x	?	13	?	l dvm 17?	t-ti(cx) 1
ldvm16	-	?	-	?	l dvm 19	t-cx 5
ldvm17	-	?	-	?	l dvm 20	t-cx 6, t-cx 7
ldvm18	x	?	14 & 15	?	l dvm 21	t-cx 8
ldvm19	-	?	-	?	l dvm 18	t-tr 1

Additional file 2: Homologisation of thoracic muscle nomenclatures used by several authors

"-" absent / "?" uncertain or no information

ltpm1	-	?	-	?	-	op-p 2
ltpm2	-	?	-	?	0 lm 9	op-p 1, t-p 3
ltpm3	x	?	12	?	l tpm 25	-
ltpm4	-	?	-	?	l tpm 26	t-p 14?
ltpm5	-	?	-	?	l tpm 27?	t-p 15?
ltpm6	-	?	-	?	-	t-p 1, t-p 2
-	ltpm7	?	4	?	?	?
-	ltpm8	?	5	?	?	?
-	ltpm9	?	7	?	?	?
-	ltpm10	?	9	?	?	?
-	ltpm11	?	10	?	?	?
lspm1	x	?	-	?	l zm 34	p-s1
lspm2	-	?	-	?	-	p-s 2
lspm3	-	?	-	?	-	p-s 6
lspm4	-	?	-	?	-	p-s 7
lspm5	-	?	-	?	-	p-s 5
lspm6	-	?	-	?	-	p-s 4
lspm7	-	?	-	?	-	p-s 10
lpcm1	-	?	-	?	-	cv-cx 3
lpcm2	-	?	-	?	-	cv-cx 1, cv-cx 2
lpcm3	-	?	-	?	-	p-ti(cx) 1
lpcm4	-	?	-	?	-	p-cx 4
lpcm5	-	?	-	?	l cpm 28	p-cx 5
lpcm6	-	?	-	?	-	p-cx 6, p-cx 9
lpcm7	-	?	-	?	-	p-cx 7
lpcm8	x	?	18	?	l cpm 29	p-tr 1, p-tr 2
-	lpcm9	?	17	?	?	?
lvlm1	-	?	-	?	0 vlm 4	cv-s 1, cv-s 4?
lvlm2	-	?	-	?	-	op-cv(v) 4

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IvIm3	x	?	11	?	0 vIm 3	s 1, s 2
IvIm4	-	?	-	?	I vIm 14	s 14, s16
IvIm5	-	?	-	?	-	s 17
IvIm6	-	?	-	?	-	s 15
IvIm7	x	?	41	?	I vIm 13	s 13
IvIm8	-	?	-	?	-	s 11
IvIm9	-	?	-	?	-	s 12
Iscm1	-	?	-	?	I bm 30	s-cx 5
Iscm2	x	?	16	?	I bm 33	s-cx 3
Iscm3	-	?	-	?	I bm 32	s-cx 6
Iscm4	-	?	-	?	-	s-cx 2
Iscm5	-	?	-	?	-	s-cx 4
Iscm6	x	?	19	?	I bm 31	s-tr 1
Iscm7	-	?	-	?	-	s-cx 1, s-cx 7
<b>Mesothorax</b>						
IIdIm1	x	x	25	MT.m	II dIm 35	t 14
IIdIm2	-	-	-	S.LP?m	II dIm 36, II dIm 37	t12, t13
IIdIm3	-	-	-	S.Esm	-	t-p 5, t-p 6
IIdvM1	x	x	23'	S.CmA	II dvm 40	t-ti 1, t-ti 2
IIdvM2	-	-	-	S.CmA	II dvm 41	t-ti 3
IIdvM3	x	x	23	-	-	t-cx 5
IIdvM4	x	x	26	PSL.Cm, S.CmP	II dvm 43	t-cx 6, t-cx 7
IIdvM5	x	x	27	SA.Cm, SA.Fm	II dvm 43	t-cx 8
IIdvM6	x	-	-	S.Trm	II cpm 53	t-tr 1
IIdvM7	-	-	-	-	II dvm 42	t-s 1
IIdvM8	-	-	-	-	II ism 44	t-s 8, t-s 7 ?
IIdvM9	-	-	-	A?.Pm	-	t-p 3
IItpm1	-	-	-	BA.Pm	II tpm 46a	t-p 4, t-p 20

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IItpm2	-	x	-	-	II tpm 47	t-p 7, t-p 8, t-p 9
IItpm3	x	-	-	SrA.Pm, Ax.Pml	II tpm 46b ?	t-p 10, t-p 11, t-p 18
IItpm4	x	x	28	-	-	t-p 12
IItpm5	-	-	-	-	-	t-p 15
IItpm6	x	x	31	-	II tpm 49	t-p 13
IItpm7	x	x	33	-	II tpm 48	-
IItpm8	x	x	32	Ax.PmS	-	t-p 14
IItpm9	x	x	29/30	-	-	t-p 16
IItpm10	x	x	34	-	II ppm 56	t-p 19
IItpm11	-	-	-	-	-	t-p 17
IItpm12	-	-	-	-	-	p 1
IItpm13	-	-	-	-	?	?
IIppm1	-	-	-	-	II im 65a	p 2
IIppm2	-	-	-	-	II pm 54a, b	p 3
IIspm1	-	-	-	-	II ppm 55	p-s 1
IIspm2	x	-	35	-	II zm 61a	p-s 2
IIspm3	-	-	-	-	-	p-s 6
IIspm4	-	-	-	-	-	p-s 7
IIspm5	-	-	-	-	-	p-s 3
IIspm6	-	-	-	-	-	p-s 9
IIspm7	-	-	-	-	-	p-s 5
IIspm8	-	-	-	-	-	p-ti(cx) 1
IIpcm1	x	x	21	-	-	p-ti(cx) 2, p-ti(cx) 3
IIpcm2	x	x	22	-	II cpm 51	p-cx 4, p-cx 6
IIpcm3	-	-	-	P.Cm	-	p-cx 5
IIpcm4	x	x	36	BA.Trm	II cpm 52	p-tr 2
IIpcm5	-	-	-	P.Trm	II cpm 50	p-tr 1
IIpcm6	x	x	39	Fm	-	s14, s16
IIvlm1	-	-	-	-	-	s 15

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IIvlm2	-	-	-	iFm	-	s 13
IIvlm3	-	-	-	-	II vlm 38	s 11
IIvlm4	-	-	-	-	-	s 12
IIvlm5	-	-	-	-	II vlm 39	p-s 13
IIvlm6	x	-	68	-	-	p-s 10
IIvlm7	x	x	41	F.CmA	-	s-cx 5
IIscm1	x	-	-	-	II bm 57	s-cx 3
IIscm2	x	-	-	-	II bm 60	s-cx 6
IIscm3	x	x	38	F.CmP	II bm 59	s-cx 2
IIscm4	-	-	-	-	II zm 61b	s-cx 4
IIscm5	-	-	-	-	-	s-tr1
IIscm6	x	x	40	-	II bm 58	s-cx 1
IIscm7	x	-	-	-	-	s-cx 7
<b>Metathorax</b>						
III dlm1	x	x	45	MT.m	III dlm 35	t 14
III dlm2	x	x	45'	S.LP?m	III dlm 36, III dlm 37	t 12, t13
III dlm3	-	-	-	-	III dvm 40	?
III dvm1	-	x	46'	S.Esm	III dvm 41	t-p 5, t-p 6
III dvm2	-	-	-	S.CmA	-	t-ti 1, t-ti 2
III dvm3	x	x	46	S.CmA	III dvm 43	t-ti 3
III dvm4	x	x	48	-	III dvm 43	t-cx 5
III dvm5	x	x	49	PSL.Cm, S.CmP	III cpm 53	t-cx 6, t-cx 7
III dvm6	x	-	46	SA.Cm, SA.Fm	III dvm 42	t-cx 8
III dvm7	-	-	-	-	III ism 44	t-tr 1
III dvm8	x	x	67	-	III tpm 46a	t-s 1
III tpm1	-	-	-	A?.Pm	III tpm 47	t-p 3
III tpm2	-	x	-	BA.Pm	III tpm 46b	t-p 4, t-p 20
III tpm3	x	-	-	-	-	t-p 7, t-p 8

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IIItpm4	x	x	50	SrA.Pm, Ax.Pml	-	t-p 10, t-p 11, t-p 18
IIItpm5	-	-	-	-	III tpm 49	t-p 12
IIItpm6	x	x	53	-	III tpm 48	t-p 15
IIItpm7	x	x	55	-	-	t-p 13
IIItpm8	x	x	54	-	-	-
IIItpm9	x	x	51/52	Ax.PmS	III ppm 56	t-p 14
IIItpm10	x	x	56	-	-	t-p 16
IIItpm11	-	-	-	-	-	t-p 19
IIItpm12	-	-	-	-	-	t-p 17
IIItpm13	-	-	-	-	?	?
IIIppm1	-	-	-	-	III im 65a	p 1
IIIppm2	-	-	-	-	III ppm 54a, b	p 2
IIIspm1	-	-	-	-	III ppm 55	p 3
IIIspm2	x	-	57	-	III zm 61	p-s 1
IIIspm3	-	-	-	-	-	p-s 7
IIIspm4	-	-	-	-	-	p-s 9
IIIspm5	-	-	-	-	-	p-s 5
IIIspm6	-	-	-	-	?	?
IIIpcm1	x	x	43	-	-	p-ti(cx) 1
IIIpcm2	x	x	44	-	III cpm 51	p-ti(cx) 2, p-ti(cx) 3
IIIpcm3	-	-	-	-	-	p-cx 4, p-cx 6
IIIpcm4	x	x	58	P.Cm	III cpm 52	p-cx 5
IIIpcm5	-	-	-	BA.Trm	III cpm 50	p-tr 2
IIIpcm6	x	x	62	P.Trm	-	p-tr 1
IIIpcm7	-	-	-	-	-	p-cx 8
IIIvlm1	-	-	-	Fm	-	s 14, s16
IIIvlm2	x	x	65	-	III vlm 64	s 20
IIIvlm3	x	x	66	-	-	s 12
IIIscm1	x	-	-	F.CmA	III bm 57	s-cx 5

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IIIscm2	x	-	-	-	III bm 60	s-cx 3
IIIscm3	x	x	61	-	III bm 59	s-cx 6
IIIscm4	-	-	-	F.CmP	-	s-cx 2
IIIscm5	-	-	-	-	-	s-cx 4
IIIscm6	x	x	63	-	III cpm 58	s-tr 1