Table S1 – Details on the origin and insertion of all extrinsic and intrinsic forearm and hand muscles of gibbons and macaques.

	Rhesus macaques *			*Gibbons* +	
	Origin	**Insertion**		**Origin**	**Insertion**
Extrinsic muscles *Upper arm muscles*					
Bb	*damaged*[7]	*damaged*[7]	**Bb**		
long head	supraglenoid tubercle of the scapula[1-6]	radial tuberosity[1-6]	long head	supraglenoid tubercle of the scapula[1-4,6,8] *damaged*[5,7]	radial tuberosity[1-8]
short head	coracoid process of the scapula[1-6] + fused with CB[1-6]	distally onto muscle belly of long head (bicipital aponeurosis)[1-6]	short head	crest of the lesser tubercle of the humerus[1-4,6-8] + few muscle fibers shared with CB[2] *damaged*[5]	bicipital aponeurosis into deep fascia (connection with FDS) on medial part of forearm[1-8]
Tb	*damaged*[7]	*damaged*[7]	**Tb**	all muscle bellies fused[1-8]	
long head	infraglenoid tubercle of the scapula[1-6]	oleocranon[1-6]	long head	infraglenoid tubercle of the scapula[1-6,8] *damaged*[7]	oleocranon[1-8]
medial head	humeral shaft[1-6]	oleocranon[1-6]	medial head	humeral shaft[1-8]	oleocranon[1-8]
lateral head	proximal humeral shaft[1-6]	oleocranon[1-6]	lateral head	proximal humeral shaft[1-8]	oleocranon[1-8]
DET	muscle belly of latissimus dorsi[1-6] *damaged*[7]	oleocranon; fascia of Bb and Tb[1-6] *damaged*[7]	**DET**	muscle belly of latissimus dorsi[2-8] *damaged*[1]	oleocranon; fascia of Bb and Tb[1-3] tendon sheet to medial epicondyle of the humerus[4-8]
B	distal half of the humerus[1-2,4-6] complete humeral shaft[3] *damaged*[7]	tuberosity of the ulna[1-6] + fused with SUP[5] *damaged*[7]	**B**	distal half of the humerus[1-4,6-8] + fused with BR[2] distal 2/3 of the humerus[5]	tuberosity of the ulna[1-8] + fused with PT[4]

Legend * *Rhesus macaques*: 1: Mm1 R / 2: Mm2 L / 3: Mm3 L / 4: Mm4 L / 5: Mm5 L / 6: Mm6 L / 7: Mm7 R
+ *Gibbons*: 1: Hl1 L / 2: Hl2 R / 3: Hl3 R / 4: Hp1 R / 5: Nc1 L / 6: Nl1 R / 7: Ss1 R / 8: Ss2 L

Table S1 – Details on the origin and insertion of all extrinsic and intrinsic forearm and hand muscles of gibbons and macaques.

	Rhesus macaques *			*Gibbons* +	
	Origin	**Insertion**		**Origin**	**Insertion**
CB	*damaged*[7]	*damaged*[7]	**CB**	*damaged*[7]	*damaged*[7]
superficial head	coracoid process of scapula[1-6] + fused with Bb long head[1-6]	middle of humeral shaft[1-6]		coracoid process of scapula[1-6,8]	middle of humeral shaft[1-4,6-8] proximal 1/3 of humerus[5]
deep head	coracoid process of scapula (and common coracoid tendon)[1-6]	surgical neck of the humerus[1-6]			
ETA	medial epicondyle of the humerus[1-7]	oleocranon[1-7]		ABSENT	
Forearm rotators					
BR	supracondylar ridge of the humerus[1-7] + fused with B[1-2]	styloid process of the radius[1-7]	**BR**	supracondylar ridge of the humerus[1-8] + fused with B[2,5]	styloid process of the radius[1,3-4] middle of the radius[2,5-8] + continues towards the styloid process[7] but does not reach it[2,5,8]
SUP	lateral epicondyle of the humerus and proximal 1/3 of ulna[1-7]	proximal half of the radius (anterior and posterior border)[1-7]	**SUP**	lateral epicondyle of the humerus[1-8] + proximal 1/3 of ulna[1-2,6-8]	proximal half of the radius (anterior + posterior border)[1-8]
PT	medial epicondyle of the humerus[1-7] + fused with FCR[1,3-4] + fused with FDS[5-7]	halfway the radius[1-7]	**PT**	medial epicondyle of the humerus[1-8] + fused with FCR[2] + fused with B[4]	halfway the radius[1-8]

Legend * *Rhesus macaques*: 1: Mm1 R / 2: Mm2 L / 3: Mm3 L / 4: Mm4 L / 5: Mm5 L / 6: Mm6 L / 7: Mm7 R
+ *Gibbons*: 1: Hl1 L / 2: Hl2 R / 3: Hl3 R / 4: Hp1 R / 5: Nc1 L / 6: Nl1 R / 7: Ss1 R / 8: Ss2 L

	Rhesus macaques *			*Gibbons* +	
	Origin	**Insertion**		**Origin**	**Insertion**
PQ	distal 1/4 of the ulna[1] distal 1/5 of the ulna[2-7]	distal interosseous membrane[1-7] + distal 1/4 of the radius[1] + distal 1/5 of the radius[2-7]	**PQ** for[3,6:] appears as two muscle bellies fused together: proximal belly distal belly	distal 1/4 of the ulna[1-2,4-5,7-8] distal 1/4 of the ulna distal interosseous membrane; 1/4 of the radius	distal interosseous membrane[1-2,4-5,7-8] + distal 1/4 of the radius[1-2,4-5,7-8] distal interosseous membrane; 1/4 of the radius distal 1/4 of the ulna
Extrinsic hand muscles					
ECRL	lateral supracondylar ridge of the humerus (proximal from BR)[1-7] + fused with ECRB[1,3-7]	dorsoradial base of MC2[1-7]	**ECRL**	lateral supracondylar ridge of the humerus (proximal from BR)[1-8] + fused with ECRB[1,4,6] + lateral epicondyle of humerus[5]	dorsoradial base of MC2[1-8] + base of MC1[4,6]
ECRB	lateral supracondylar ridge of the humerus (distal from ECRL)[1-7] + fused with ECRL[1,3-7] + fused with ED[1,3-5]	dorsal base of MC3[1-7]	**ECRB**	lateral supracondylar ridge of the humerus (distal from ECRL)[1-4,6-8] + fused with ECRL[1,4,6] + fused with ED[1] + lateral epicondyle of humerus[2] lateral epicondyle of humerus[5]	dorsoradial base of MC3[1-5,7-8]

Legend * *Rhesus macaques*: 1: Mm1 R / 2: Mm2 L / 3: Mm3 L / 4: Mm4 L / 5: Mm5 L / 6: Mm6 L / 7: Mm7 R
+ *Gibbons*: 1: Hl1 L / 2: Hl2 R / 3: Hl3 R / 4: Hp1 R / 5: Nc1 L / 6: Nl1 R / 7: Ss1 R / 8: Ss2 L

	Rhesus macaques *			*Gibbons* +	
	Origin	**Insertion**		**Origin**	**Insertion**
APL	interosseous membrane; middle of the ulna[1-7] + fused with EDST[7]	tendon splits distally into two	**APL**	interosseous membrane; middle of the ulna[1-8]	two separate tendons
APL I		base of MC1[1-7]	APL I		base of MC1[1-8]
APL II		prepollex[1-7]	APL II		trapezium[1-3,5-8] + prepollex[6,8] capitate[4]
ED II-III-IV-V	lateral epicondyle of the humerus[1-7]	distal phalanges of digits 2 to 5 (extensor mechanism)[1-7]	**ED II-III-IV-V**	lateral epicondyle of the humerus[1-8] + interosseous membrane[5,7] + fused with EDM[3-6]	distal phalanges of digits 2 to 5 (extensor mechanism)[1-8]
EDST	proximal half of the ulna[1-7] + fused with APL[7]	ulnar side of the distal phalanges of digits 2 and 3 (extensor mechanism)[1-7]	**EDST**	ABSENT	
EDQQ	lateral epicondyle of the humerus[1-7]	ulnar side of the distal phalanges of digits 4 and 5 (extensor mechanism)[1-7]	**EDQQ**	ABSENT	
EDB	ABSENT		**EDB** for[1-3,5-8]: EDB II-III-IV for[4]: EDB III-IV	interosseous membrane[1-3,5-8] + proximal ulna[1-3] + distal half of ulna[5-8] interosseous membrane + proximal ulna + fused with ED	proximal phalanx of digits 2 to 4[1-3,6-8] base of MC2 to MC4[5] tendon to the proximal phalanx of digits 3 and 4

Legend * *Rhesus macaques*: 1: Mm1 R / 2: Mm2 L / 3: Mm3 L / 4: Mm4 L / 5: Mm5 L / 6: Mm6 L / 7: Mm7 R
+ *Gibbons*: 1: Hl1 L / 2: Hl2 R / 3: Hl3 R / 4: Hp1 R / 5: Nc1 L / 6: Nl1 R / 7: Ss1 R / 8: Ss2 L

	Rhesus macaques *			*Gibbons* +	
	Origin	**Insertion**		**Origin**	**Insertion**
EDM	ABSENT		**EDM**	lateral epicondyle of the humerus[1-6,8] + fused with ED[3-6] distal ½ of ulna[7]	distal phalanx of digit 5 (together with ED V)[1-8]
EI	ABSENT		**EI** for[1-3,5-8]: no separate EI (see EDB)	distal 1/3 of the ulna and interosseous membrane[4]	proximal phalanx of digit 2[4]
ECU	lateral epicondyle of the humerus[1-7]	ulnar base of MC5[1-7]	**ECU**	lateral epicondyle of the humerus[1-8] + proximal ulna[7] + oleocranon[6]	ulnar base of MC5[1-8]
EPL	proximal 1/3 of the ulna[1-7] + interosseous membrane[1-3,5]	dorsal side of the distal phalanx of digit 1[1-7]	**EPL**	proximal 1/3 ulna[1-8] + interosseous membrane[1,3-4]	dorsal side of the distal phalanx of digit 1[2-8] *damaged*[1]

Legend * *Rhesus macaques*: 1: Mm1 R / 2: Mm2 L / 3: Mm3 L / 4: Mm4 L / 5: Mm5 L / 6: Mm6 L / 7: Mm7 R
+ *Gibbons*: 1: Hl1 L / 2: Hl2 R / 3: Hl3 R / 4: Hp1 R / 5: Nc1 L / 6: Nl1 R / 7: Ss1 R / 8: Ss2 L

	Rhesus macaques *			*Gibbons* +	
	Origin	**Insertion**		**Origin**	**Insertion**
FDS	muscle bellies partially separable (fused on proximal side) + connected with FDP at the level of digit 1-2-3 (extra muscle belly) medial epicondyle of the humerus[1-7]	middle phalanx of digits 2 to 5[1-6] + connection between tendon IV and V[2] proximal phalanx of digits 4 and 5[7] + vestigial tendon to digits 2 and 3 (insertion on fascia, at the level of the LUMB)[7]	**FDS**		middle phalanx of digits 2 to 5[1,4-8] middle phalanx of digit 2[2] (tendons to digit 3 to 5 damaged) proximal phalanx of digits 2 to 5[3]
			for[1-4,6]: FDS II-III-IV-V	medial epicondyle of the humerus[1-4,6] + fused to FDP[3-4] + proximal half of the ulna[6]	
			for[5]: FDS II FDS III-IV FDS V	proximal 1/5 of the ulna medial epicondyle of the humerus proximal 2/5 of the ulna	
			for[7]: FDS II FDS III FDS IV FDS V	medial epicondyle of the humerus proximal half of the radius proximal ulna middle of the ulna	
			for[8]: FDS II-II-IV FDS V	proximal half of the ulna and medial epicondyle of the humerus halfway down the ulna	

Legend * *Rhesus macaques*: 1: Mm1 R / 2: Mm2 L / 3: Mm3 L / 4: Mm4 L / 5: Mm5 L / 6: Mm6 L / 7: Mm7 R
+ *Gibbons*: 1: Hl1 L / 2: Hl2 R / 3: Hl3 R / 4: Hp1 R / 5: Nc1 L / 6: Nl1 R / 7: Ss1 R / 8: Ss2 L

	Rhesus macaques *			*Gibbons* +	
	Origin	**Insertion**		**Origin**	**Insertion**
FDP	muscle bellies partially separable; tendons clustered together at wrist level; tendon 1 inserts on cluster (not just on tendon 2) medial epicondyle of the humerus; shaft of the radius (between SUP and PQ); interosseus membrane; shaft of the ulna (from oleocranon to PQ)	distal phalanx of:	**FDP**	medial epicondyle of the humerus; shaft of the radius (between SUP and PQ); interosseous membrane; shaft of the ulna (from oleocranon to PQ)	distal phalanx of:
			for[1-5]:		
			FDP I (cfr. FPL)		digit 1[2-5]
			FDP II-III-IV-V		digits 2 to 5[3-5] digits 2 to 4[2] (tendon to digit 5 damaged) *all tendons damaged*[1]
for[1,3-6]:			for[6]:		
FDP I-II-III		digits 1 to 3	FDP I-II		digit 1 and 2
FDP IV		digit 4	FDP III-IV-V		digits 3 to 5
FDP V		digit 5			+ connection between tendon II and III[6]
small interconnection between tendon IV and V					+ connection between tendon III and IV[6]
			for[7-8]:		
for[2]:			FDP I-II-III-IV-V		digit 1 to 5
FDP I-III-IV		digits 1 and 3 proximal phalanx of digit 4			
FDP II		digit 2			
FDP V		digit 5			
for[7]:					
FDP I-II-III		digit 1			
tendons II and III show a tendon-lumbrical-tendon configuration		proximal phalanx digit 2 (continues as a ligament) medial phalanx of digit 3 (continues to distal phalanx)			
FDP IV-V		digits 4 and 5			

Legend * *Rhesus macaques*: 1: Mm1 R / 2: Mm2 L / 3: Mm3 L / 4: Mm4 L / 5: Mm5 L / 6: Mm6 L / 7: Mm7 R
+ *Gibbons*: 1: Hl1 L / 2: Hl2 R / 3: Hl3 R / 4: Hp1 R / 5: Nc1 L / 6: Nl1 R / 7: Ss1 R / 8: Ss2 L

	Rhesus macaques *			*Gibbons* +	
	Origin	**Insertion**		**Origin**	**Insertion**
FCR	medial epicondyle of the humerus[1-7] + fused with FDS[3] + fused with PT[1,3-4]	palmar base of MC2[1-7]	**FCR**	medial epicondyle of the humerus[1-5,7-8] + proximal ulna[8] + fused with FDS and PT[6]	palmar base of MC2[1-8]
FCU	medial epicondyle of the humerus[1-7] + oleocranon[3,5-7]	pisiform bone[1-7]	**FCU**	medial epicondyle of the humerus[1-8] + oleocranon[6,8]	pisiform bone[1-8]
PL	medial epicondyle of the humerus[1-7]	medial palmar aponeurosis[1-7]	**PL**	medial epicondyle of the humerus[1-8] + fascia Bb[4,6]	tendon of FCR[2,4] radial palmar aponeurosis[3,5-8] *damaged[1]*
Intrinsic muscles *Thenar muscles*					
APB	flexor retinaculum[1-7] + palmar aponeurosis[1-3,5] + fused with FPB[1,4-5]	radial sesamoid bone of MCP1 joint[1-7] + radial side of the proximal phalanx[4,6-7]	**APB**	flexor retinaculum[3,5-7] + prepollex[6] *damaged[1-2,4,8]*	radial sesamoid bone of MCP1 joint[3,5-7] + fused with OPP[5] *damaged[1-2,4,8]*
FPB for[3,6]:	flexor retinaculum[1-2,4-5,7] + fused with APB[1,4-5]	radial sesamoid bone of MCP1 joint[1-2,4-5,7] + fused distally with ADPo (ulnar side)[5,7]	**FPB** superficial head	*damaged[1,4]* flexor retinaculum[2-3,5-8]	*damaged[1,4]* radial sesamoid bone of MCP1 joint (ulnar side of APB insertion)[2-3,5-8] + fused with OPP[3]
superficial head	flexor retinaculum	radial sesamoid bone of MCP1 joint	deep head	flexor retinaculum[2-3,5-8] + fused with OPP[7]	radial sesamoid bone of MCP1 joint[2-3,5,7-8]
deep head	flexor retinaculum	radial sesamoid bone of MCP1 joint			ulnar sesamoid bone of MCP1 joint[6]

Legend * *Rhesus macaques*: 1: Mm1 R / 2: Mm2 L / 3: Mm3 L / 4: Mm4 L / 5: Mm5 L / 6: Mm6 L / 7: Mm7 R
+ *Gibbons*: 1: Hl1 L / 2: Hl2 R / 3: Hl3 R / 4: Hp1 R / 5: Nc1 L / 6: Nl1 R / 7: Ss1 R / 8: Ss2 L

	Rhesus macaques *			*Gibbons* +	
	Origin	**Insertion**		**Origin**	**Insertion**
ADP			**ADP**	*damaged*[4,8]	*damaged*[4,8]
transverse head ADPt	palmar base and shaft of MC3[1-7]	ulnar sesamoid bone of MCP1 joint[1-7] + MCP joint[1,5,6] + proximal phalanx of digit 1[1-3,6] + muscle tissue to radial side MC2[4]		palmar base and shaft of MC3[1,3,5-6]	ulnar sesamoid bone of MCP1 joint[1,3,5-6] + proximal phalanx of digit 1[5]
oblique head ADPo	palmar base of MC1[1-7] + palmar base of MC2[5] + palmar base of MC3[3]	ulnar sesamoid bone of MCP1 joint[1-7] + ulnar side of proximal phalanx of digit 1[2] + radial side of proximal phalanx of digit 1[3] + MCP1 joint[5]	for[2,6]: no distinction between transverse and oblique head	palmar base of MC1[1,3] palmar base of MC2[5-6] palmar base of MC1 and MC3	ulnar sesamoid bone of MCP1 joint[1,3,5-6] + proximal phalanx of digit 1[4-5] ulnar sesamoid bone of MCP1 joint
OPP	flexor retinaculum[1-7] + prepollex[6-7]	radial side of MC1 shaft[1-7]	**OPP**	flexor retinaculum[6-8] + palmar base of MC1[6] + fused with FPB[7] *damaged*[1-2,4] *fused with FPBs*[3] *fused with APB*[5]	radial side of MC1 shaft[6-8] *damaged*[1-2,4] *fused with FPBs*[3] *fused with APB*[5]
Hypothenar muscles					
PB	flexor retinaculum[1-7]	palmar aponeurosis[1-7]		flexor retinaculum[3] pisiform bone[5] mostly fat[6-7] *damaged*[1-2,4,8]	palmar aponeurosis[3,5] *damaged*[1-2,4,8]

Legend * *Rhesus macaques*: 1: Mm1 R / 2: Mm2 L / 3: Mm3 L / 4: Mm4 L / 5: Mm5 L / 6: Mm6 L / 7: Mm7 R
+ *Gibbons*: 1: Hl1 L / 2: Hl2 R / 3: Hl3 R / 4: Hp1 R / 5: Nc1 L / 6: Nl1 R / 7: Ss1 R / 8: Ss2 L

	Rhesus macaques *			*Gibbons* +	
	Origin	**Insertion**		**Origin**	**Insertion**
ADM	pisiform bone[1-7] + flexor retinaculum and pisohamate ligament[1-2,6-7] + fused with FDM[4-5]	ulnar side of MCP5 joint[1-7] + tendon joins FDM[1-5] + proximal phalanx[6-7]	**ADM**	pisiform bone[3,6] base of MC5[5,7-8] *damaged*[1-2,4]	ulnar side of MCP5 joint[3,5-8] + fused with FDM[7]
FDM	flexor retinaculum[1-7] + fused with ADM[4-5] + pisiform bone[6-7]	MCP5 joint[1-7] + ADM tendon[1,3] + proximal phalanx[2,5-7]	**FDM**	flexor retinaculum[3,7-8] + pisiform and base of MC5[6] + fused with ODM[6] base of MC5 and fused with ODM[5] *damaged*[1-2,4]	ulnar base of the proximal phalanx of digit 5[3,5-8] + fused with ADM[3,7]
ODM	flexor retinaculum[1-7] + base of MC5[5-6]	ulnar side of MC5 shaft[1-7]	**ODM**	flexor retinaculum[3,6-8] *damaged*[1-2,4] *fused with FDM*[5-6]	ulnar side of MC5 shaft[3,6-8]

Legend * *Rhesus macaques*: 1: Mm1 R / 2: Mm2 L / 3: Mm3 L / 4: Mm4 L / 5: Mm5 L / 6: Mm6 L / 7: Mm7 R
+ *Gibbons*: 1: Hl1 L / 2: Hl2 R / 3: Hl3 R / 4: Hp1 R / 5: Nc1 L / 6: Nl1 R / 7: Ss1 R / 8: Ss2 L

	Rhesus macaques *			*Gibbons* +	
	Origin	**Insertion**		**Origin**	**Insertion**
LUMB	tendons of FDP	radial side of the extensor sheath at the proximal phalanx of:	**LUMB**	tendons of FDP	radial side of the extensor sheath at the proximal phalanx of:
					all tendons damaged[1]
LUMB II	FDP II[1-6] *7: tendon – lumbrical – tendon*	digit 2[1-6]	LUMB II	FDP II[1-5,7] + FDP III[7] *absent*[6]	digit 2[2-5,7]
LUMB III	FDP III[1-6] + FDP II[1,3-6] *7: tendon – lumbrical – tendon*	digit 3[1-6]	LUMB III	FDP III[1-7] + FDP II[4-5,7]	digit 3[2-7]
LUMB IV	FDP IV[1-7] + FDP III[1-7]	digit 4[1-7]	LUMB IV	FDP IV[1-5,7] + FDP III[4,7] *absent*[6]	digit 4[2-5,7]
LUMB V	FDP V[1-7] + FDP IV[1-2,4-7]	digit 5[1-7]	LUMB V	FDP V[4-5,7] + FDP IV[4-5] + few muscle fibers to LUMB IV[7] FDP IV[1] *damaged*[2] *absent*[3,6]	digit 5[4-5,7]
			for[8]: LUMB II-III-IV	tendon of FDP II-IV (all lumbicals fused)	digits 2 to 4

Legend * *Rhesus macaques*: 1: Mm1 R / 2: Mm2 L / 3: Mm3 L / 4: Mm4 L / 5: Mm5 L / 6: Mm6 L / 7: Mm7 R
+ *Gibbons*: 1: Hl1 L / 2: Hl2 R / 3: Hl3 R / 4: Hp1 R / 5: Nc1 L / 6: Nl1 R / 7: Ss1 R / 8: Ss2 L

	Rhesus macaques *			*Gibbons* +	
	Origin	**Insertion**		**Origin**	**Insertion**
IM	ABSENT		**IM**		
			IM I	radial side of MC2 base[2-3]	radial side MCP2 joint[2-3]
			IM II	ulnar shaft of MC2; radial shaft of MC3[1-4,7]	radial side of MCP3 joint[1-4,7]
			IM III	ulnar shaft of MC3; radial shaft of MC4[1,4]	ulnar side of MCP3 joint[1,4]
			IM IV	ulnar shaft of MC4; radial shaft of MC5[4]	ulnar side of MCP4 joint[4]

Legend * *Rhesus macaques*: 1: Mm1 R / 2: Mm2 L / 3: Mm3 L / 4: Mm4 L / 5: Mm5 L / 6: Mm6 L / 7: Mm7 R
+ *Gibbons*: 1: Hl1 L / 2: Hl2 R / 3: Hl3 R / 4: Hp1 R / 5: Nc1 L / 6: Nl1 R / 7: Ss1 R / 8: Ss2 L

	Rhesus macaques *			*Gibbons* +	
	Origin	**Insertion**		**Origin**	**Insertion**
FBP			**FBP**		
FBP III	*FBP III is fused with IM Ia-b to form IOD I*[1-7]		FBP III	base of MC2[2-3] *FBP III is fused with IM Ia-b to form IOD I*[1,4-8]	radial side of proximal phalanx of digit 2[2-3]
FBP IV (= IOP I)	shaft of MC2[1-7]	ulnar side of proximal phalanx digit 2[1-7] + MCP2 joint[1-3]	FBP IV (= IOP I)	shaft of MC2[1-8]	ulnar side of proximal phalanx of digit 2[1-8]
FBP V	*FBP V is fused with IM II to form IOD II*[1-7]		FBP V	shaft of MC3[1-4,7] *FBP V is fused with IM II to form IOD II*[5-6,8]	radial side of proximal phalanx of digit 3[1-4,7]
FBP VI	*FBP VI is fused with IM III to form IOD III*[1-7]		FBP VI	shaft of MC3[1,4] *FBP VI is fused with IM III to form IOD III*[2-3,5-8]	ulnar side of proximal phalanx of digit 3[1,4]
FBP VII (= IOP II)	shaft of MC4[1-7]	radial side of proximal phalanx digit 4[1-7] + MCP4 joint[3]	FBP VII (= IOP II)	shaft of MC4[1-8]	radial side of proximal phalanx of digit 4[1-8]
FBP VIII	*FBP VIII is fused with IM IV to form IOD IV*[1-7]		FBP VIII	shaft of MC4[4] *FBP VIII is completely fused with IM IV to form IOD I*[V1-3,5-8]	ulnar side of proximal phalanx of digit 4[4-6]
FBP IX (= IOP III)	shaft of MC5[1-7]	radial side of proximal phalanx digit 5[1-7]	FBP IX (= IOP III)	shaft of MC5[1-8]	radial side of proximal phalanx of digit 5[1-8]

Legend * *Rhesus macaques*: 1: Mm1 R / 2: Mm2 L / 3: Mm3 L / 4: Mm4 L / 5: Mm5 L / 6: Mm6 L / 7: Mm7 R
+ *Gibbons*: 1: Hl1 L / 2: Hl2 R / 3: Hl3 R / 4: Hp1 R / 5: Nc1 L / 6: Nl1 R / 7: Ss1 R / 8: Ss2 L

	Rhesus macaques *			*Gibbons* +	
	Origin	**Insertion**		**Origin**	**Insertion**
IOD		tendons join extensor mechanism of the corresponding digit	**IOD**		tendons join extensor mechanism of the corresponding digit
IOD I (cf. IM I)	ulnar side of MC1 base; shaft of MC2[1-7]	radial side of MCP2 joint[1-7]	IOD I (cf. IM I)	ulnar side of MC1 and shaft of MC2[1,4-8]	muscle belly crosses radial side of MCP2 joint, tendon to proximal phalanx[1,4-8]
IOD II (cf. IM II)	shaft of MC2 + MC3[1-7] + entire fusion of FBP V and IM II[1-7]	radial side of MCP3 joint[1-7]			+ extends to radial side of PIP2 joint[7]
			IOD II (cf. IM II)	shaft of MC2 and MC3[5-6,8] + entire fusion of FBP V and IM II[8] + partial fusion of FBP V and IM II[5-6]	radial side of MCP3 joint[8] two distinct tendons; 1 inserting on MCP3 joint and 1 inserting on proximal phalanx[5-6]
IOD III (cf. IM III)	shaft of MC3 + MC4[1-7] + fused to IOP II[5] + entire fusion of FBP VI and IM III[1-7]	ulnar side of MCP3 joint[1-7]			
IOD IV (cf. IM IV)	shaft of MC4 + MC5[1-7] + entire fusion of FBP VIII and IM IV[1,3-7] + partial fusion of FBP III and IM IV[2]	ulnar side of MCP4 joint[1,3-7] two tendons; 1 inserting on MCP4 joint and 1 inserting on proximal phalanx[2]	IOD III (cf. IM III)	shaft of MC3 and MC4[2-3,5-8] + entire fusion of FBP VI and IM III[2] + partial fusion of FBP VI and IM III[3,5-8]	ulnar side of MCP3 joint[2] two tendons; 1 inserting on MCP3 joint and 1 inserting on proximal phalanx[3,5-8]
			IOD IV (cf. IM IV)	shaft of MC4 and MC5[1-3,5-8] + entire fusion of FBP VIII and IM IV[1-2,5,8] + partial fusion of FBP III and IM IV[3,6-7]	ulnar side of MCP4 joint[1-2,5,8] two tendons; 1 inserting on MCP4 joint and 1 inserting on proximal phalanx[3,6-7]

Legend * *Rhesus macaques*: 1: Mm1 R / 2: Mm2 L / 3: Mm3 L / 4: Mm4 L / 5: Mm5 L / 6: Mm6 L / 7: Mm7 R
+ *Gibbons*: 1: Hl1 L / 2: Hl2 R / 3: Hl3 R / 4: Hp1 R / 5: Nc1 L / 6: Nl1 R / 7: Ss1 R / 8: Ss2 L

	Rhesus macaques *			*Gibbons* +	
	Origin	**Insertion**		**Origin**	**Insertion**
Contrahens	*absent*[5]	*absent*[5]	**Contrahens**		
~ C5	palmar base MC3; partial fusion with IOD II + III[1-4,6-7]	radial side of MCP5 joint, joining extensor mechanism of digit 5[1-4,6-7]	~ C2	at the level of FBP VI[1,4]	ulnar side of MCP2 joint (together with IOP I)[1,4] + tiny sliver to radial side of MCP3 joint[1]
			~ C5	at the level of FBP IX[4,7]	ulnar side of MCP4 joint[4,7]
			~ C4	IOD III[5]	ulnar side of MCP3 joint[5]
			~ contrahens Digitorum (CD)	distal IOD I[6]	halfway the proximal phalanx (radial side) of digit 1[6]
			~ C2	proximal IOP II[6]	ulnar side of MCP2 joint[6]
			~ C2	at the level of FBP IV[8]	ulnar side of MCP2 joint[8]

Legend * *Rhesus macaques*: 1: Mm1 R / 2: Mm2 L / 3: Mm3 L / 4: Mm4 L / 5: Mm5 L / 6: Mm6 L / 7: Mm7 R
+ *Gibbons*: 1: Hl1 L / 2: Hl2 R / 3: Hl3 R / 4: Hp1 R / 5: Nc1 L / 6: Nl1 R / 7: Ss1 R / 8: Ss2 L