

**Table A1. Feather mites (FM) sampled from arctic skua used for molecular study.**

Sample ID	FM specimen & DNA code	COI haplotype	GenBank Acc. nos.		FM species
			COI	28S rDNA	
T01p	Env481	H18	KF018867		<i>Zachvatkinia isolata</i>
	Env482	H30	KF018868		<i>Z. isolata</i>
	Env484	H18	KF018869		<i>Z. isolata</i>
	Env485	H1	KF018870		<i>Z. isolata</i>
	Env480	H59	KF018860		<i>Alloptes stercorarii</i>
T02p	Env478	H31	KF018866		<i>Z. isolata</i>
	Env479	H54	KF018820	KJ804194	<i>Z. stercorarii</i>
T03p	Env470	H58	KF018830		<i>A. stercorarii</i>
	Env471	H57	KF018831		<i>A. stercorarii</i>
	Env472	H57	KF018832		<i>A. stercorarii</i>
	Env473	H57	KF018833	KJ804203	<i>A. stercorarii</i>
T04p	Env546	H31	KF018827		<i>Z. isolata</i>
	Env547	H34	KF018862		<i>Z. isolata</i>
	Env548	H29	KF018863		<i>Z. isolata</i>
	Env549	H53	KF018864	KJ804196	<i>Z. isolata</i>
T05p	Env574	H25	KF018906	KJ804195	<i>Z. isolata</i>
	Env576	H39	KF018907		<i>Z. isolata</i>
T06g	lack of sequence data				
T06p	Env551	H31	KF018890		<i>Z. isolata</i>
	Env552	H13	KF018891		<i>Z. isolata</i>
	Env553	H28	KF018892		<i>Z. isolata</i>
	Env554	H1	KF018893		<i>Z. isolata</i>
T07g	lack of sequence data				
T07p	Env441	H52	KF018861		<i>Z. isolata</i>
T08g	empty sample				
T08p	Env536	H7	KF018881		<i>Z. isolata</i>
	Env538	H21	KF018882		<i>Z. isolata</i>
	Env539	H49	KF018883		<i>Z. isolata</i>
	Env540	H17	KF018884		<i>Z. isolata</i>
	Env469	H57	KF018859		<i>A. stercorarii</i>
	Env583	H60	KF018829		<i>A. stercorarii</i>
T09g	Env532	H1	KF018879		<i>Z. isolata</i>
	Env533	H53	KF018880		<i>Z. isolata</i>
T09p	Env556	H9	KF018894		<i>Z. isolata</i>
	Env557	H19	KF018895		<i>Z. isolata</i>
T10g	Env524	H51	KF018876		<i>Z. isolata</i>
	Env528	H48	KF018877		<i>Z. isolata</i>
T10p	Env570	H32	KF018902		<i>Z. isolata</i>
	Env571	H1	KF018903		<i>Z. isolata</i>
	Env572	H24	KF018904	KJ804201	<i>Z. isolata</i>
	Env573	H24	KF018905		<i>Z. isolata</i>
T11g	lack of sequence data				
T11p	Env560	H31	KF018896		<i>Z. isolata</i>
	Env562	H26	KF018897		<i>Z. isolata</i>
	Env564	H35	KF018898		<i>Z. isolata</i>
	Env565	H38	KF018899		<i>Z. isolata</i>
T12g	Env520	H53	KF018872		<i>Z. isolata</i>
	Env521	H31	KF018873		<i>Z. isolata</i>

	Env522	H46	KF018874		<i>Z. isolata</i>
	Env523	H19	KF018875		<i>Z. isolata</i>
T12p	Env566	H44	KF018900		<i>Z. isolata</i>
	Env569	H53	KF018901	KJ804197	<i>Z. isolata</i>
T13g	Env447	H45	KF018887		<i>Z. isolata</i>
	Env448	H15	KF018888		<i>Z. isolata</i>
	Env449	H1	KF018889		<i>Z. isolata</i>
	Env450	H3	KF018865		<i>Z. isolata</i>
T13p	Env577	H27	KF018908		<i>Z. isolata</i>
	Env578	H22	KF018909		<i>Z. isolata</i>
	Env579	H6	KF018910		<i>Z. isolata</i>
	Env580	H1	KF018911		<i>Z. isolata</i>
T14g	Env529	H54	KF018821		<i>Z. stercorarii</i>
	Env530	H54	KF018822		<i>Z. stercorarii</i>
	Env531	H54	KF018878		<i>Z. stercorarii</i>
T14p	Env541	H36	KF018885		<i>Z. isolata</i>
	Env544	H41	KF018886		<i>Z. isolata</i>
T15g	Env412	H14	KF018828		<i>Z. isolata</i>
T16g	Env517	H1	KF018871		<i>Z. isolata</i>