

Supplementary material 6. List of the GenBank accession numbers for hypsibiid sequences (18S rRNA, 28S rRNA, COI,) used for phylogenetic analyses of *Hypsibius* sp. from Mt. Gassan.

Species	18S	28S	COI	Reference
<i>Acutuncus mariae</i>	MW012739	MW012742	MW009690	Zawierucha et al. (2020)
<i>Adropion scoticum</i> voucher 5	MT126752	MT126770	MT107466	Gąsiorek and Michalczyk (2020)
<i>Adropion scoticum</i> voucher 6	MT126753	MT126771		Gąsiorek and Michalczyk (2020)
<i>Astatumen aff. trinacriae</i>	MT126755	MT126773	MT107468	Gąsiorek and Michalczyk (2020)
<i>Astatumen bartosi</i>	MT126754	MT126772	MT107467	Gąsiorek and Michalczyk (2020)
<i>Astatumen trinacriae</i> 1	HQ604922			Bertolani et al. (2014)
<i>Astatumen trinacriae</i> 2	FJ435733	FJ435775		Guil and Giribet (2012)
<i>Borealibius zetlandicus</i>	HQ604924			Bertolani et al. (2014)
<i>Calohypsibius ornatus</i>	MH279652	MT126784		Gąsiorek et al. (2019)
<i>Adropion belgicae</i>	HQ604925			Bertolani et al. (2014)
<i>Diphascon higinnsi</i>	HQ604932			Bertolani et al. (2014)
<i>Pilatobius nodulosus</i>	HQ604934			Bertolani et al. (2014)
<i>Pilatobius patanei</i>	HQ604935			Bertolani et al. (2014)
<i>Diphascon pingue</i>	HQ604937			Bertolani et al. (2014)
<i>Diphascon pingue</i>	FJ435736	FJ435776		Guil and Giribet (2012)
<i>Diphascon puniceum</i>	EU266948			Sands et al., (2008)

<i>Pilatobius ramazzottii</i>	HQ604939			Bertolani et al. (2014)
<i>Guidettion prorsirostre</i>	MT126750	MT126768	MT107464	Gąsiorek and Michalczyk (2020)
<i>Hypsibius</i> cf. <i>exemplaris</i>			MW010376	Zawierucha et al. (2020)
<i>Hypsibius</i> cf. <i>convergens</i>	KC582832			Dabert et al. (2013)
<i>Hypsibius convergens</i>	FJ435726			Guil and Giribet (2012)
<i>Hypsibius dujardini</i>	MG777532	MG777533	MG818723	Gąsiorek et al. (2018)
<i>Hypsibius exemplaris</i>	MG800327	MG800337	MG818724	Gąsiorek et al. (2018)
<i>Cryobiotus klebelsbergi</i>	KT901828	KT901829	KT901833	Dabert et al. (2015)
<i>Notahypsibius pallidoides</i>	MK973069	MK967963	MN919385	Tumanov (2020)
<i>Hypsibius pallidus</i>	HQ604945			Bertolani et al. (2014)
<i>Hypsibius scabropygus</i>	KC582831			Dabert et al. (2013)
<i>Insulobius orientalis</i>	MT126764	MT126783		Gąsiorek and Michalczyk (2020)
<i>Itaquascon</i> sp.	MT126759	MT126778	MT107473	Gąsiorek and Michalczyk (2020)
<i>Mesocrista revalata</i>	KU528627	KU528628	KU495935	Gąsiorek et al. (2016)
<i>Mesocrista spitsbergensis</i>	KX347532	KX347533	KX347535	Gąsiorek et al. (2016)
<i>Pilatobius recamieri</i>	KX347526	KX347527	KX347529	Gąsiorek et al. (2017)
<i>Pilatobius islandicus</i>	MH682258	MH682257	MH734939	Buda et al. (2018)
<i>Pilatobius glacialis</i>	MW012733	MW012744	MW009692	Zawierucha et al. (2020)
<i>Platicrista aff angustata</i>	MT126762	MT126781	MT107476	Gąsiorek and Michalczyk (2020)

<i>Platicrista horribilis</i>	MT126763	MT126782	MT107477	Gąsiorek and Michalczyk (2020)
<i>Raribius</i> sp.	MT126758	MT126777	MT107472	Gąsiorek and Michalczyk (2020)
New sequences				
<i>Hypsibius</i> sp.	ON898549 (Snow Tardigrada 1)	ON927924– ON927925 (Snow Tardigrada 2, 3)	ON899873– ON899875 (Snow Tardigrada 1, 2, 3)	This study