

## SUPPLEMENTARY INFORMATION

### DNA Barcoding of Fish, Insects, and Shellfish in Korea

**Dae-Won Kim<sup>1†</sup>, Won Gi Yoo<sup>2†</sup>, Hyun Chul Park<sup>3,4</sup>, Hye Sook Yoo<sup>5</sup>,  
Dong Won Kang<sup>6</sup>, Seon Deok Jin<sup>6</sup>, Hong Ki Min<sup>7</sup>,  
Woon Kee Paek<sup>6\*</sup>, Jeongheui Lim<sup>8\*\*</sup>**

<sup>1</sup>Division of Malaria and Parasitic Diseases, Korea National Institute of Health, Osong 363-951, Korea, <sup>2</sup>Codes Division, Insilicogen Inc., Suwon 441-813, Korea, <sup>3</sup>Forensic DNA Center, National Forensic Service, Seoul 158-707, Korea, <sup>4</sup>School of Biological Sciences, Seoul National University, Seoul 151-744, Korea, <sup>5</sup>Korea Biobank, Center for Genome Science, Korea National Institute of Health, Osong 363-951, Korea, <sup>6</sup>Division of Natural History, National Science Museum, Daejeon 305-705, Korea, <sup>7</sup>Natural History Museum, Hannam University, Daejeon 306-791, Korea, <sup>8</sup>School of Biotechnology, Yeungnam University, Gyeongsan 712-749, Korea

Supplementary Table 1. Species identity and collection information for barcoded fish, insects and shellfish in Korea

GenBank Acc. No.	Voucher No.	Geographic location	Species	Collection date			Latitude	Longitude
				Year	Month	Day		
HM180413	MS-000490	Chungcheongnam-do	<i>Cerastoma rorifluum</i>	2009	8	12	126.17155	36.35226
HM180414	MS-000696	Gyeonggi-do	<i>Acrida cinerea</i>	2009	9	26	-	-
HM180415	MS-000499	Chungcheongnam-do	<i>Acanthochitona achates</i>	2009	8	12	126.17155	36.35226
HM180416	MS-000498	Chungcheongnam-do	<i>Acanthochitona achates</i>	2009	8	12	126.17155	36.35226
HM180417	MS-000596	Jeollanam-do	<i>Acanthochitona defilippii</i>	2009	10	7	127.51195	34.32295
HM180418	MS-000598	Jeollanam-do	<i>Acanthochitona defilippii</i>	2009	10	7	127.51195	34.32295
HM180419	MS-000591	Jeollanam-do	<i>Acanthochitona defilippii</i>	2009	10	7	127.51195	34.32295
HM180420	MS-000595	Jeollanam-do	<i>Acanthochitona defilippii</i>	2009	10	7	127.51195	34.32295
HM180421	MS-000597	Jeollanam-do	<i>Acanthochitona defilippii</i>	2009	10	7	127.51195	34.32295
HM180422	MS-000413	Chungcheongnam-do	<i>Acanthochitona defilippii</i>	2008	7	10	126.3117194	36.5889833
HM180423	MS-000411	Chungcheongnam-do	<i>Acanthochitona defilippii</i>	2008	7	1	126.1580583	36.8298972
HM180424	MS-000410	Chungcheongnam-do	<i>Acanthochitona defilippii</i>	2008	7	1	126.1580556	36.8299083
HM180425	MS-000412	Chungcheongnam-do	<i>Acanthochitona defilippii</i>	2008	7	1	126.1580639	36.8298917
HM180426	MS-000414	Chungcheongnam-do	<i>Acanthochitona defilippii</i>	2008	7	10	126.3117139	36.5889778
HM180427	MS-000415	Chungcheongnam-do	<i>Acanthochitona rubrolineata</i>	2008	7	17	126.142725	36.725425
HM180428	MS-000417	Chungcheongnam-do	<i>Acanthochitona rubrolineata</i>	2008	7	17	126.1427278	36.7254
HM180429	MS-000416	Chungcheongnam-do	<i>Acanthochitona rubrolineata</i>	2008	7	17	126.1427333	36.7254194
HM180430	MS-000418	Chungcheongnam-do	<i>Acanthochitona rubrolineata</i>	2008	7	17	126.142725	36.7253917
HM180431	PI-000161	Jeollanam-do	<i>Agrammus agrammus</i>	2009	10	7	127.51195	34.32295
HM180432	PI-000162	Jeollanam-do	<i>Agrammus agrammus</i>	2009	10	7	127.51195	34.32295
HM180433	MS-000432	Chungcheongnam-do	<i>Alpheus brevicristatus</i>	2008	7	28	126.233625	36.7016472
HM180434	IN-000799	Jeollanam-do	<i>Amara macronota</i> (Solsky, 1875)	2008	5	17	-	-
HM180435	IN-000788	Jeollanam-do	<i>Amara macronota</i> (Solsky, 1875)	2008	5	19	-	-
HM180436	IN-000798	Jeollanam-do	<i>Amara macronota</i> (Solsky, 1875)	2007	5	2	-	-
HM180437	IN-000772	Gyeonggi-do	<i>Ampedus humeralis</i>	2008	4	11	127.20579	37.28345
HM180438	IN-000793	Gyeonggi-do	<i>Ampedus humeralis</i>	2006	6	22	127.20579	37.28345
HM180439	IN-000794	Gyeonggi-do	<i>Ampedus humeralis</i>	2008	4	11	127.20579	37.28345
HM180440	IN-000773	Gyeonggi-do	<i>Ampedus subcostatus</i> (Kolbe, 1886)	2008	4	11	127.20579	37.28345
HM180441	IN-000791	Gyeonggi-do	<i>Ampedus subcostatus</i> (Kolbe, 1886)	2007	3	30	127.20579	37.28345
HM180442	IN-000792	Gyeonggi-do	<i>Ampedus subcostatus</i> (Kolbe, 1886)	2006	6	22	127.20579	37.28345
HM180443	IN-000767	Gangwon-do	<i>Anomala chamaeleon</i> Fairmaire	2008	7	29	127.57284	38.13218
HM180444	IN-000768	Gyeonggi-do	<i>Anomala luculenta</i> Erichson	2006	8	12	127.20579	37.28345
HM180445	IN-000769	Gangwon-do	<i>Anomala mongolica</i> (Faldermann, 1823)	2008	8	12	127.57284	38.13218
HM180446	IN-000795	Gangwon-do	<i>Anomala mongolica</i> (Faldermann, 1823)	2008	7	29	127.57284	38.13218
HM180447	PI-000319	Jeollanam-do	<i>Apogon semilineatus</i>	2009	11	20	127.51195	34.32295
HM180448	PI-000355	Jeollanam-do	<i>Apogon semilineatus</i>	2009	11	20	127.51195	34.32295
HM180449	PI-000360	Jeollanam-do	<i>Apogon semilineatus</i>	2009	11	20	127.51195	34.32295
HM180450	PI-000359	Jeollanam-do	<i>Apogon semilineatus</i>	2009	11	20	127.51195	34.32295
HM180451	PI-000343	Jeollanam-do	<i>Apogon semilineatus</i>	2009	11	20	127.51195	34.32295
HM180452	PI-000345	Jeollanam-do	<i>Apogon semilineatus</i>	2009	11	20	127.51195	34.32295
HM180453	PI-000307	Jeollanam-do	<i>Apogon semilineatus</i>	2009	11	20	127.51195	34.32295
HM180454	PI-000320	Jeollanam-do	<i>Apogon semilineatus</i>	2009	11	20	127.51195	34.32295
HM180455	PI-000362	Jeollanam-do	<i>Apogon semilineatus</i>	2009	11	20	127.51195	34.32295
HM180456	PI-000347	Jeollanam-do	<i>Apogon semilineatus</i>	2009	11	20	127.51195	34.32295
HM180457	PI-000312	Jeollanam-do	<i>Apogon semilineatus</i>	2009	11	20	127.51195	34.32295
HM180458	PI-000310	Jeollanam-do	<i>Apogon semilineatus</i>	2009	11	20	127.51195	34.32295
HM180459	PI-000314	Jeollanam-do	<i>Apogon semilineatus</i>	2009	11	20	127.51195	34.32295
HM180460	PI-000346	Jeollanam-do	<i>Apogon semilineatus</i>	2009	11	20	127.51195	34.32295
HM180461	PI-000308	Jeollanam-do	<i>Apogon semilineatus</i>	2009	11	20	127.51195	34.32295
HM180462	PI-000316	Jeollanam-do	<i>Apogon semilineatus</i>	2009	11	20	127.51195	34.32295
HM180463	PI-000353	Jeollanam-do	<i>Apogon semilineatus</i>	2009	11	20	127.51195	34.32295
HM180464	PI-000309	Jeollanam-do	<i>Apogon semilineatus</i>	2009	11	20	127.51195	34.32295
HM180465	PI-000358	Jeollanam-do	<i>Apogon semilineatus</i>	2009	11	20	127.51195	34.32295
HM180466	PI-000311	Jeollanam-do	<i>Apogon semilineatus</i>	2009	11	20	127.51195	34.32295

HM180467	PI-000318	Jeollanam-do	<i>Apogon semilineatus</i>	2009	11	20	127.51195	34.32295
HM180468	PI-000352	Jeollanam-do	<i>Apogon semilineatus</i>	2009	11	20	127.51195	34.32295
HM180469	PI-000351	Jeollanam-do	<i>Apogon semilineatus</i>	2009	11	20	127.51195	34.32295
HM180470	PI-000321	Jeollanam-do	<i>Apogon semilineatus</i>	2009	11	20	127.51195	34.32295
HM180471	PI-000348	Jeollanam-do	<i>Apogon semilineatus</i>	2009	11	20	127.51195	34.32295
HM180472	PI-000313	Jeollanam-do	<i>Apogon semilineatus</i>	2009	11	20	127.51195	34.32295
HM180473	PI-000344	Jeollanam-do	<i>Apogon semilineatus</i>	2009	11	20	127.51195	34.32295
HM180474	PI-000350	Jeollanam-do	<i>Apogon semilineatus</i>	2009	11	20	127.51195	34.32295
HM180475	PI-000317	Jeollanam-do	<i>Apogon semilineatus</i>	2009	11	20	127.51195	34.32295
HM180476	PI-000357	Jeollanam-do	<i>Apogon semilineatus</i>	2009	11	20	127.51195	34.32295
HM180477	PI-000356	Jeollanam-do	<i>Apogon semilineatus</i>	2009	11	20	127.51195	34.32295
HM180478	PI-000354	Jeollanam-do	<i>Apogon semilineatus</i>	2009	11	20	127.51195	34.32295
HM180479	IN-000774	Jeollanam-do	<i>Apogonia cribricollis</i> Burmeister	2007	5	3	-	-
HM180480	IN-000775	Jeollanam-do	<i>Apogonia cupreoviridis</i> Kolbe	2007	5	2	-	-
HM180481	MS-000542	Incheon	<i>Arca avellana</i>	2009	9	22	126.19308	37.39234
HM180482	MS-000543	Incheon	<i>Arca avellana</i>	2009	9	22	126.19308	37.39234
HM180483	MS-000541	Incheon	<i>Arca avellana</i>	2009	9	22	126.19308	37.39234
HM180484	MS-000692	Gyeonggi-do	<i>Atractomorpha lata</i>	2009	9	26	-	-
HM180485	MS-000694	Gyeonggi-do	<i>Atractomorpha lata</i>	2009	9	26	-	-
HM180486	PI-000203	Jeollanam-do	<i>Aulichthys japonicus</i>	2009	10	7	127.51195	34.32295
HM180487	IN-000770	Gyeonggi-do	<i>Blitopertha pallidipennis</i> Reitter	2006	7	25	127.20579	37.28345
HM180488	IN-000740	Chungcheongnam-do	<i>Calosilpha brunneicollis</i> (Kraatz, 1877)	2007	8	6	126.40276	36.2712.8
HM180489	MS-000437	Chungcheongnam-do	<i>Cancer gibbosulus</i>	2008	8	14	126.0240694	36.6476389
HM180490	MS-000440	Chungcheongnam-do	<i>Cancer gibbosulus</i>	2008	8	14	126.0240111	36.6475944
HM180491	MS-000635	Jeollanam-do	<i>Ceratostoma inornatus</i>	2009	10	7	127.51195	34.32295
HM180492	MS-000637	Jeollanam-do	<i>Ceratostoma inornatus</i>	2009	10	7	127.51195	34.32295
HM180493	MS-000636	Jeollanam-do	<i>Ceratostoma inornatus</i>	2009	10	7	127.51195	34.32295
HM180494	MS-000491	Chungcheongnam-do	<i>Ceratostoma rorifluum</i>	2009	8	12	126.17155	36.35226
HM180495	PI-000246	Jeollanam-do	<i>Chaetodontoplus septentrionalis</i>	2009	10	7	127.51195	34.32295
HM180496	PI-000247	Jeollanam-do	<i>Chaetodontoplus septentrionalis</i>	2009	10	7	127.51195	34.32295
HM180497	MS-000512	Incheon	<i>Charybdis japonica</i> A. Milne Edwards	2009	9	22	126.20284	27.47083
HM180498	MS-000510	Incheon	<i>Charybdis japonica</i> A. Milne Edwards	2009	9	22	126.20284	27.47083
HM180499	MS-000511	Incheon	<i>Charybdis japonica</i> A. Milne Edwards	2009	9	22	126.20284	27.47083
HM180500	MS-000508	Incheon	<i>Charybdis japonica</i> A. Milne Edwards	2009	9	22	126.20284	27.47083
HM180501	MS-000509	Incheon	<i>Charybdis japonica</i> A. Milne Edwards	2009	9	22	126.20284	27.47083
HM180502	PI-000367	Jeollanam-do	<i>Chelidonichthys spinosus</i>	2009	10	7	127.51195	34.32295
HM180503	PI-000270	Jeollanam-do	<i>Chelidonichthys spinosus</i>	2009	10	7	127.51195	34.32295
HM180504	PI-000370	Jeollanam-do	<i>Chelidonichthys spinosus</i>	2009	10	7	127.51195	34.32295
HM180505	PI-000418	Jeollanam-do	<i>Chelidonichthys spinosus</i>	2009	7	20	127.51195	34.32295
HM180506	PI-000093	Jeollanam-do	<i>Chelidonichthys spinosus</i>	2009	7	20	127.51195	34.32295
HM180507	PI-000402	Jeollanam-do	<i>Chirolophis japonicus</i>	2009	7	20	127.51195	34.32295
HM180508	PI-000403	Jeollanam-do	<i>Chirolophis japonicus</i>	2009	7	20	127.51195	34.32295
HM180509	PI-000087	Jeollanam-do	<i>Chirolophis japonicus</i>	2009	7	20	127.51195	34.32295
HM180510	MS-000540	Incheon	<i>Chlamys farreri nipponensis</i>	2009	9	22	126.19308	37.39234
HM180511	MS-000502	Chungcheongnam-do	<i>Chlorostoma argyrostoma turbinatum</i>	2009	8	12	126.17155	36.35226
HM180512	MS-000506	Chungcheongnam-do	<i>Chlorostoma argyrostoma turbinatum</i>	2009	8	12	126.17502	36.38068
HM180513	MS-000503	Chungcheongnam-do	<i>Chlorostoma argyrostoma turbinatum</i>	2009	8	12	126.17155	36.35226
HM180514	MS-000504	Chungcheongnam-do	<i>Chlorostoma argyrostoma turbinatum</i>	2009	8	12	126.17502	36.38068
HM180515	MS-000507	Chungcheongnam-do	<i>Chlorostoma argyrostoma turbinatum</i>	2009	8	12	126.17502	36.38068
HM180516	MS-000505	Chungcheongnam-do	<i>Chlorostoma argyrostoma turbinatum</i>	2009	8	12	126.17502	36.38068
HM180517	MS-000618	Jeollanam-do	<i>Chlorostoma turbinata</i>	2009	10	7	127.51195	34.32295
HM180518	MS-000614	Jeollanam-do	<i>Chlorostoma turbinata</i>	2009	10	7	127.51195	34.32295
HM180519	MS-000613	Jeollanam-do	<i>Chlorostoma turbinata</i>	2009	10	7	127.51195	34.32295
HM180520	MS-000610	Jeollanam-do	<i>Chlorostoma turbinata</i>	2009	10	7	127.51195	34.32295
HM180521	MS-000611	Jeollanam-do	<i>Chlorostoma turbinata</i>	2009	10	7	127.51195	34.32295
HM180522	MS-000617	Jeollanam-do	<i>Chlorostoma turbinata</i>	2009	10	7	127.51195	34.32295
HM180523	MS-000615	Jeollanam-do	<i>Chlorostoma turbinata</i>	2009	10	7	127.51195	34.32295

HM180524	MS-000612	Jeollanam-do	<i>Chlorostoma turbinata</i>	2009	10	7	127.51195	34.32295
HM180525	MS-000609	Jeollanam-do	<i>Chlorostoma turbinata</i>	2009	10	7	127.51195	34.32295
HM180526	MS-000616	Jeollanam-do	<i>Chlorostoma turbinata</i>	2009	10	7	127.51195	34.32295
HM180527	IN-000761	Chungcheongnam-do	<i>Cicindela transbaicalica</i> Motschulsky , 1845	2008	6	14	-	-
HM180528	PI-000059	Jeollanam-do	<i>Citharoides macrolepidotus</i>	2009	7	20	127.51195	34.32295
HM180529	PI-000058	Jeollanam-do	<i>Citharoides macrolepidotus</i>	2009	7	20	127.51195	34.32295
HM180530	PI-000399	Jeollanam-do	<i>Clupandon punctatus</i>	2009	7	20	127.51195	34.32295
HM180531	IN-000760	Gyeongsangbuk-do	<i>Coccinella septempunctata</i> Linne	2008	5	23	-	-
HM180532	IN-000757	Gyeongsangbuk-do	<i>Coccinella septempunctata</i> Linne	2008	5	23	-	-
HM180533	PI-000107	Jeollanam-do	<i>Coilia ectenes</i>	2009	7	20	127.51195	34.32295
HM180534	PI-000374	Incheon	<i>Coilia nasus</i>	2009	9	22	126.20284	27.47083
HM180535	PI-000375	Incheon	<i>Coilia nasus</i>	2009	9	22	126.20284	27.47083
HM180536	PI-000376	Incheon	<i>Coilia nasus</i>	2009	9	22	126.20284	27.47083
HM180537	PI-000373	Incheon	<i>Coilia nasus</i>	2009	9	22	126.20284	27.47083
HM180538	PI-000372	Incheon	<i>Coilia nasus</i>	2009	9	22	126.20284	27.47083
HM180539	PI-000378	Incheon	<i>Collichthys lucidus</i>	2009	9	22	126.20284	27.47083
HM180540	PI-000379	Incheon	<i>Collichthys lucidus</i>	2009	9	22	126.20284	27.47083
HM180541	PI-000380	Incheon	<i>Collichthys lucidus</i>	2009	9	22	126.20284	27.47083
HM180542	PI-000381	Incheon	<i>Collichthys lucidus</i>	2009	9	22	126.20284	27.47083
HM180543	PI-000377	Incheon	<i>Collichthys lucidus</i>	2009	9	22	126.20284	27.47083
HM180544	PI-000390	Jeollanam-do	<i>Collichthys lucidus</i>	2009	7	20	128.51195	35.32295
HM180545	PI-000015	Jeollanam-do	<i>Conger myriaster</i>	2009	7	20	127.51195	34.32295
HM180546	IN-000754	Jeollabuk-do	<i>Coptolabrus jankowskii</i> Oberthur	2008	7	19	-	-
HM180547	IN-000753	Jeollabuk-do	<i>Coptolabrus jankowskii</i> Oberthur	2008	7	19	-	-
HM180548	IN-000752	Jeollabuk-do	<i>Coptolabrus jankowskii</i> Oberthur	2008	7	19	-	-
HM180549	PI-000163	Jeollanam-do	<i>Coryphaena hippurus</i>	2009	10	7	127.51195	34.32295
HM180550	MS-000658	Jeollanam-do	<i>Cyclina sinensis</i>	2009	10	7	127.51195	34.32295
HM180551	MS-000659	Jeollanam-do	<i>Cyclina sinensis</i>	2009	10	7	127.51195	34.32295
HM180552	PI-000080	Jeollanam-do	<i>Cynoglossus robustus</i>	2009	7	20	127.51195	34.32295
HM180553	PI-000079	Jeollanam-do	<i>Cynoglossus robustus</i>	2009	7	20	127.51195	34.32295
HM180554	PI-000382	Daejeon	<i>Cyprinus carpio</i>	2009	9	20	-	-
HM180555	PI-000324	Jeollanam-do	<i>Decapterus maruadsi</i>	2009	11	20	127.51195	34.32295
HM180556	PI-000250	Jeollanam-do	<i>Diodon holocanthus</i>	2009	10	7	127.51195	34.32295
HM180557	PI-000244	Jeollanam-do	<i>Ditrema temminckii</i>	2009	10	7	127.51195	34.32295
HM180558	PI-000245	Jeollanam-do	<i>Ditrema temminckii</i>	2009	10	7	127.51195	34.32295
HM180559	PI-000253	Jeollanam-do	<i>Ditrema temminckii</i>	2009	10	7	127.51195	34.32295
HM180560	PI-000271	Jeollanam-do	<i>Ditrema temminckii</i>	2009	10	7	127.51195	34.32295
HM180561	PI-000243	Jeollanam-do	<i>Ditrema temminckii</i>	2009	10	7	127.51195	34.32295
HM180562	PI-000254	Jeollanam-do	<i>Ditrema temminckii</i>	2009	10	7	127.51195	34.32295
HM180563	PI-000115	Jeollanam-do	<i>Enedrias nebulosus</i>	2009	7	20	127.51195	34.32295
HM180564	PI-000116	Jeollanam-do	<i>Enedrias nebulosus</i>	2009	7	20	127.51195	34.32295
HM180565	PI-000119	Jeollanam-do	<i>Enedrias nebulosus</i>	2009	7	20	127.51195	34.32295
HM180566	PI-000117	Jeollanam-do	<i>Enedrias nebulosus</i>	2009	7	20	127.51195	34.32295
HM180567	PI-000018	Jeollanam-do	<i>Enedrias nebulosus</i>	2009	7	20	127.51195	34.32295
HM180568	MS-000535	Incheon	<i>Eriocheir leptognathus</i>	2009	9	22	126.20284	27.47083
HM180569	MS-000534	Incheon	<i>Eriocheir leptognathus</i>	2009	9	22	126.20284	27.47083
HM180570	MS-000536	Incheon	<i>Eriocheir leptognathus</i>	2009	9	22	126.20284	27.47083
HM180571	MS-000532	Incheon	<i>Eriocheir leptognathus</i>	2009	9	22	126.20284	27.47083
HM180572	MS-000533	Incheon	<i>Eriocheir leptognathus</i>	2009	9	22	126.20284	27.47083
HM180573	IN-000747	Gangwon-do	<i>Eucarabus sternbergi</i> Roeschke, 1898	2007	6	21	128.29571	38.01075
HM180574	MS-000544	Incheon	<i>Eucrassatella nana</i>	2009	9	22	126.19308	37.39234
HM180575	IN-000746	Chungcheongnam-do	<i>Eusilpha jakowlewi</i> (Semenov)	2007	8	8	-	-
HM180576	MS-000521	Incheon	<i>Exopalaemon carinicauda</i>	2009	9	22	126.20284	27.47083
HM180577	MS-000523	Incheon	<i>Exopalaemon carinicauda</i>	2009	9	22	126.20284	27.47083
HM180578	MS-000525	Incheon	<i>Exopalaemon carinicauda</i>	2009	9	22	126.20284	27.47083
HM180579	MS-000522	Incheon	<i>Exopalaemon carinicauda</i>	2009	9	22	126.20284	27.47083
HM180580	MS-000650	Jeollanam-do	<i>Fusinus forceps</i>	2009	10	7	127.51195	34.32295

HM180581	MS-000651	Jeollanam-do	<i>Fusinus forceps</i>	2009	10	7	127.51195	34.32295
HM180582	MS-000648	Jeollanam-do	<i>Fusinus forceps</i>	2009	10	7	127.51195	34.32295
HM180583	MS-000652	Jeollanam-do	<i>Fusinus forceps</i>	2009	10	7	127.51195	34.32295
HM180584	MS-000649	Jeollanam-do	<i>Fusinus forceps</i>	2009	10	7	127.51195	34.32295
HM180585	MS-000473	Jeollanam-do	<i>Fusinus longicaudus</i>	2009	7	20	127.51195	34.32295
HM180586	MS-000443	Chungcheongnam-do	<i>Gaetice depressus</i>	2008	7	29	126.0241583	36.6475778
HM180587	MS-000661	Chungcheongnam-do	<i>Gaetice depressus</i>	2008	7	23	126.2369278	36.7025083
HM180588	MS-000662	Chungcheongnam-do	<i>Gaetice depressus</i>	2008	7	23	126.2368972	36.7024861
HM180589	MS-000442	Chungcheongnam-do	<i>Gaetice depressus</i>	2008	7	23	126.2369028	36.7024806
HM180590	MS-000666	Incheon	<i>Gaetice depressus</i> (De Haan, 1833)	2009	9	20	-	-
HM180591	PI-000075	Jeollanam-do	<i>Halichoeres poecilopterus</i>	2009	7	20	127.51195	34.32295
HM180592	PI-000070	Jeollanam-do	<i>Halichoeres poecilopterus</i>	2009	7	20	127.51195	34.32295
HM180593	PI-000078	Jeollanam-do	<i>Halichoeres poecilopterus</i>	2009	7	20	127.51195	34.32295
HM180594	PI-000265	Jeollanam-do	<i>Halichoeres tenuispinis</i>	2009	10	7	127.51195	34.32295
HM180595	PI-000263	Jeollanam-do	<i>Halichoeres tenuispinis</i>	2009	10	7	127.51195	34.32295
HM180596	PI-000264	Jeollanam-do	<i>Halichoeres tenuispinis</i>	2009	10	7	127.51195	34.32295
HM180597	PI-000266	Jeollanam-do	<i>Halichoeres tenuispinis</i>	2009	10	7	127.51195	34.32295
HM180598	PI-000267	Jeollanam-do	<i>Halichoeres tenuispinis</i>	2009	10	7	127.51195	34.32295
HM180599	PI-000262	Jeollanam-do	<i>Halichoeres tenuispinis</i>	2009	10	7	127.51195	34.32295
HM180600	PI-000065	Jeollanam-do	<i>Haplogeny mucronatus</i>	2009	7	20	127.51195	34.32295
HM180601	PI-000066	Jeollanam-do	<i>Haplogeny mucronatus</i>	2009	7	20	127.51195	34.32295
HM180602	IN-000790	Gangwon-do	<i>Harpalidae</i> sp.	2008	5	28	127.20579	37.28345
HM180603	IN-000784	Jeju-do	<i>Harpalus discrepans</i> Morawitz	2006	5	14	-	-
HM180604	IN-000785	Gyeonggi-do	<i>Harpalus tsushimanus</i> Habu et Baba	2007	10	12	127.20579	37.28345
HM180605	MS-000447	Chungcheongnam-do	<i>Helice tridens sheni</i>	2008	7	30	126.383525	36.5985972
HM180606	MS-000446	Chungcheongnam-do	<i>Helice tridens sheni</i>	2008	7	30	126.3835306	36.5985917
HM180607	MS-000634	Jeollanam-do	<i>Hemifusus ternatanus</i>	2009	10	7	127.51195	34.32295
HM180608	MS-000632	Jeollanam-do	<i>Hemifusus ternatanus</i>	2009	10	7	127.51195	34.32295
HM180609	MS-000633	Jeollanam-do	<i>Hemifusus ternatanus</i>	2009	10	7	127.51195	34.32295
HM180610	MS-000501	Chungcheongnam-do	<i>Hemigrapsus penicillatus</i>	2009	8	12	126.17155	36.35226
HM180611	MS-000500	Chungcheongnam-do	<i>Hemigrapsus penicillatus</i>	2009	8	12	126.17155	36.35226
HM180612	PI-000096	Jeollanam-do	<i>Hexagrammos agrammus</i>	2009	7	20	127.51195	34.32295
HM180613	PI-000097	Jeollanam-do	<i>Hexagrammos agrammus</i>	2009	7	20	127.51195	34.32295
HM180614	PI-000384	Jeollanam-do	<i>Hexagrammos agrammus</i>	2009	7	20	127.51195	34.32295
HM180615	PI-000099	Jeollanam-do	<i>Hexagrammos agrammus</i>	2009	7	20	127.51195	34.32295
HM180616	PI-000100	Jeollanam-do	<i>Hexagrammos agrammus</i>	2009	7	20	127.51195	34.32295
HM180617	PI-000285	Jeollanam-do	<i>Hexagrammos otakii</i>	2009	10	7	127.51195	34.32295
HM180618	PI-000286	Jeollanam-do	<i>Hexagrammos otakii</i>	2009	10	7	127.51195	34.32295
HM180619	PI-000248	Jeollanam-do	<i>Hexagrammos otakii</i>	2009	10	7	127.51195	34.32295
HM180620	PI-000251	Jeollanam-do	<i>Hexagrammos otakii</i>	2009	10	7	127.51195	34.32295
HM180621	PI-000288	Jeollanam-do	<i>Hexagrammos otakii</i>	2009	10	7	127.51195	34.32295
HM180622	PI-000287	Jeollanam-do	<i>Hexagrammos otakii</i>	2009	10	7	127.51195	34.32295
HM180623	PI-000164	Jeollanam-do	<i>Hexagrammos otakii</i>	2009	10	7	127.51195	34.32295
HM180624	PI-000091	Jeollanam-do	<i>Hexagrammos otakii</i>	2009	7	20	127.51195	34.32295
HM180625	PI-000092	Jeollanam-do	<i>Hexagrammos otakii</i>	2009	7	20	127.51195	34.32295
HM180626	PI-000098	Jeollanam-do	<i>Hexagrammos otakii</i>	2009	7	20	127.51195	34.32295
HM180627	PI-000252	Jeollanam-do	<i>Hexagrammos</i> sp.	2009	10	7	127.51195	34.32295
HM180628	IN-000796	Jeollanam-do	<i>Holotrichia diomphalia</i> (Bates)	2007	5	3	-	-
HM180629	IN-000776	Gangwon-do	<i>Holotrichia diomphalia</i> (Bates)	2007	5	31	127.28289	38.08452
HM180630	IN-000797	Jeju-do	<i>Holotrichia diomphalia</i> (Bates)	2006	5	10	-	-
HM180631	MS-000664	Incheon	<i>Isopoda</i> sp.	2009	9	20	-	-
HM180632	MS-000477	Jeollanam-do	<i>Kelletia lischkei</i>	2009	7	20	127.51195	34.32295
HM180633	MS-000643	Jeollanam-do	<i>Kelletia lischkei</i>	2009	10	7	127.51195	34.32295
HM180634	MS-000644	Jeollanam-do	<i>Kelletia lischkei</i>	2009	10	7	127.51195	34.32295
HM180635	MS-000642	Jeollanam-do	<i>Kelletia lischkei</i>	2009	10	7	127.51195	34.32295
HM180636	MS-000641	Jeollanam-do	<i>Kelletia lischkei</i>	2009	10	7	127.51195	34.32295
HM180637	IN-000749	Gyeongsangbuk-do	<i>Labidura japonica</i> (de Haan)	2008	5	23	-	-

HM180638	PI-000009	Jeollanam-do	<i>Larimichthys crocea</i>	2009	7	20	127.51195	34.32295
HM180639	PI-000010	Jeollanam-do	<i>Larimichthys crocea</i>	2009	7	20	127.51195	34.32295
HM180640	PI-000008	Jeollanam-do	<i>Larimichthys crocea</i>	2009	7	20	127.51195	34.32295
HM180641	PI-000295	Jeollanam-do	<i>Lateolabrax japonicus</i>	2009	10	7	127.51195	34.32295
HM180642	PI-000296	Jeollanam-do	<i>Lateolabrax japonicus</i>	2009	10	7	127.51195	34.32295
HM180643	PI-000180	Jeollanam-do	<i>Lateolabrax japonicus</i>	2009	10	7	127.51195	34.32295
HM180644	PI-000179	Jeollanam-do	<i>Lateolabrax japonicus</i>	2009	10	7	127.51195	34.32295
HM180645	PI-000293	Jeollanam-do	<i>Lateolabrax japonicus</i>	2009	10	7	127.51195	34.32295
HM180646	PI-000294	Jeollanam-do	<i>Lateolabrax japonicus</i>	2009	10	7	127.51195	34.32295
HM180647	PI-000272	Jeollanam-do	<i>Lateolabrax</i> sp.	2009	10	7	127.51195	34.32295
HM180648	PI-000291	Jeollanam-do	<i>Lateolabrax</i> sp.	2009	10	7	127.51195	34.32295
HM180649	PI-000325	Jeollanam-do	<i>Leiognathus nuchalis</i>	2009	11	20	127.51195	34.32295
HM180650	PI-000037	Jeollanam-do	<i>Leiognathus nuchalis</i>	2009	7	20	127.51195	34.32295
HM180651	PI-000039	Jeollanam-do	<i>Leiognathus nuchalis</i>	2009	7	20	127.51195	34.32295
HM180652	PI-000110	Jeollanam-do	<i>Limanda yokohamae</i>	2009	7	20	127.51195	34.32295
HM180653	PI-000095	Jeollanam-do	<i>Limanda yokohamae</i>	2009	7	20	127.51195	34.32295
HM180654	MS-000486	Chungcheongnam-do	<i>Liolophura japonica</i>	2009	8	12	126.17502	36.38068
HM180655	PI-000089	Jeollanam-do	<i>Liparis agassizii</i>	2009	7	20	127.51195	34.32295
HM180656	PI-000088	Jeollanam-do	<i>Liparis agassizii</i>	2009	7	20	127.51195	34.32295
HM180657	MS-000488	Chungcheongnam-do	<i>Lunella coronata coreensis</i>	2009	8	12	126.17502	36.38068
HM180658	MS-000489	Chungcheongnam-do	<i>Lunella coronata coreensis</i>	2009	8	12	126.17155	36.35226
HM180659	MS-000487	Chungcheongnam-do	<i>Lunella coronata coreensis</i>	2009	8	12	126.17502	36.38068
HM180660	IN-000714	Daejeon	<i>Lycorma delicatula</i>	2009	8	2	-	-
HM180661	IN-000715	Daejeon	<i>Lycorma delicatula</i>	2009	8	2	-	-
HM180662	IN-000712	Daejeon	<i>Lycorma delicatula</i>	2009	8	2	-	-
HM180663	MS-000667	Incheon	<i>Macromedaeus distinguendus</i> (De Haan)	2009	9	20	-	-
HM180664	MS-000456	Chungcheongnam-do	<i>Macrophthaimus diiatus</i>	2008	7	23	126.2368694	36.7026306
HM180665	MS-000457	Chungcheongnam-do	<i>Macrophthaimus diiatus</i>	2008	7	23	126.2368528	36.7026417
HM180666	MS-000459	Chungcheongnam-do	<i>Macrophthaimus diiatus</i>	2008	7	23	126.2368611	36.70265
HM180667	IN-000780	Gyeonggi-do	<i>Maladera japonica</i>	2009	7	4	-	-
HM180668	IN-000781	Gyeonggi-do	<i>Maladera japonica</i>	2009	5	9	-	-
HM180669	IN-000779	Jeju-do	<i>Maladera okamotoi</i> (Murayama)	2006	5	15	-	-
HM180670	MS-000531	Incheon	<i>Matuta lunaris</i>	2009	9	22	126.20284	27.47083
HM180671	MS-000530	Incheon	<i>Matuta lunaris</i>	2009	9	22	126.20284	27.47083
HM180672	MS-000528	Incheon	<i>Matuta lunaris</i>	2009	9	22	126.20284	27.47083
HM180673	MS-000529	Incheon	<i>Matuta lunaris</i>	2009	9	22	126.20284	27.47083
HM180674	MS-000527	Incheon	<i>Matuta lunaris</i>	2009	9	22	126.20284	27.47083
HM180675	PI-000068	Jeollanam-do	<i>Microcanthus strigatus</i>	2009	7	20	127.51195	34.32295
HM180676	PI-000069	Jeollanam-do	<i>Microcanthus strigatus</i>	2009	7	20	127.51195	34.32295
HM180677	PI-000366	Jeollanam-do	<i>Microcanthus strigatus</i>	2009	10	7	127.51195	34.32295
HM180678	PI-000328	Jeollanam-do	<i>Microcanthus strigatus</i>	2009	11	20	127.51195	34.32295
HM180679	PI-000331	Jeollanam-do	<i>Microcanthus strigatus</i>	2009	11	20	127.51195	34.32295
HM180680	PI-000329	Jeollanam-do	<i>Microcanthus strigatus</i>	2009	11	20	127.51195	34.32295
HM180681	PI-000330	Jeollanam-do	<i>Microcanthus strigatus</i>	2009	11	20	127.51195	34.32295
HM180682	PI-000332	Jeollanam-do	<i>Microcanthus strigatus</i>	2009	11	20	127.51195	34.32295
HM180683	MS-000684	Incheon	<i>Mitrella bicincta</i> (Gould)	2009	9	20	-	-
HM180684	MS-000670	Incheon	<i>Mitrella bicincta</i> (Gould)	2009	9	20	-	-
HM180685	MS-000680	Chungcheongnam-do	<i>Mitrella bicincta</i> (Gould)	2009	10	16	-	-
HM180686	MS-000682	Chungcheongnam-do	<i>Mitrella bicincta</i> (Gould)	2009	10	16	-	-
HM180687	MS-000686	Incheon	<i>Mitrella bicincta</i> (Gould)	2009	9	20	-	-
HM180688	MS-000681	Chungcheongnam-do	<i>Mitrella bicincta</i> (Gould)	2009	10	16	-	-
HM180689	MS-000683	Chungcheongnam-do	<i>Mitrella bicincta</i> (Gould)	2009	10	16	-	-
HM180690	MS-000685	Incheon	<i>Mitrella bicincta</i> (Gould)	2009	9	20	-	-
HM180691	MS-000687	Incheon	<i>Mitrella bicincta</i> (Gould)	2009	9	20	-	-
HM180692	MS-000688	Incheon	<i>Mitrella bicincta</i> (Gould)	2009	9	20	-	-
HM180693	MS-000577	Jeollanam-do	<i>Monodonta(Monodonta) australis</i>	2009	10	7	127.51195	34.32295
HM180694	MS-000574	Jeollanam-do	<i>Monodonta(Monodonta) australis</i>	2009	10	7	127.51195	34.32295

HM180695	MS-000580	Jeollanam-do	<i>Monodonta(Monodonta) australis</i>	2009	10	7	127.51195	34.32295
HM180696	MS-000576	Jeollanam-do	<i>Monodonta(Monodonta) australis</i>	2009	10	7	127.51195	34.32295
HM180697	MS-000578	Jeollanam-do	<i>Monodonta(Monodonta) australis</i>	2009	10	7	127.51195	34.32295
HM180698	MS-000579	Jeollanam-do	<i>Monodonta(Monodonta) australis</i>	2009	10	7	127.51195	34.32295
HM180699	MS-000575	Jeollanam-do	<i>Monodonta(Monodonta) australis</i>	2009	10	7	127.51195	34.32295
HM180700	PI-000415	Incheon	<i>Mugil haematocheilus</i>	2009	9	22	126.20284	27.47083
HM180701	PI-000011	Jeollanam-do	<i>Muraenesox cinereus</i>	2009	7	20	127.51195	34.32295
HM180702	PI-000012	Jeollanam-do	<i>Muraenesox cinereus</i>	2009	7	20	127.51195	34.32295
HM180703	PI-000013	Jeollanam-do	<i>Muraenesox cinereus</i>	2009	7	20	127.51195	34.32295
HM180704	MS-000672	Incheon	<i>Mytilus edulis Linnaeus</i>	2009	9	20	-	-
HM180705	MS-000553	Incheon	<i>Mytilus galloprovincialis</i>	2009	9	22	126.19308	37.39234
HM180706	MS-000552	Incheon	<i>Mytilus galloprovincialis</i>	2009	9	22	126.19308	37.39234
HM180707	MS-000554	Incheon	<i>Mytilus galloprovincialis</i>	2009	9	22	126.19308	37.39234
HM180708	MS-000657	Jeollanam-do	<i>Mytilus galloprovincialis</i>	2009	10	7	127.51195	34.32295
HM180709	MS-000654	Jeollanam-do	<i>Mytilus galloprovincialis</i>	2009	10	7	127.51195	34.32295
HM180710	MS-000655	Jeollanam-do	<i>Mytilus galloprovincialis</i>	2009	10	7	127.51195	34.32295
HM180711	MS-000656	Jeollanam-do	<i>Mytilus galloprovincialis</i>	2009	10	7	127.51195	34.32295
HM180712	MS-000653	Jeollanam-do	<i>Mytilus galloprovincialis</i>	2009	10	7	127.51195	34.32295
HM180713	IN-000787	Jeollanam-do	<i>Nebria chinensis chinensis</i> Bates	2007	5	2	127.20579	37.28345
HM180714	IN-000800	Gangwon-do	<i>Nebria chinensis chinensis</i> Bates	2007	5	13	127.28289	38.08452
HM180715	MS-000480	Jeollanam-do	<i>Neptunea cumingi</i>	2009	7	20	127.51195	34.32295
HM180716	MS-000481	Jeollanam-do	<i>Neptunea cumingi</i>	2009	7	20	127.51195	34.32295
HM180717	PI-000340	Jeollanam-do	<i>Nibea albiflora</i>	2009	11	20	127.51195	34.32295
HM180718	IN-000743	Chungcheongnam-do	<i>Nicrophorus quadripunctatus</i> Kraatz	2007	8	6	126.40279	36.27121
HM180719	MS-000620	Jeollanam-do	<i>Notoacmea schrenckii</i>	2009	10	7	127.51195	34.32295
HM180720	MS-000619	Jeollanam-do	<i>Notoacmea schrenckii</i>	2009	10	7	127.51195	34.32295
HM180721	MS-000623	Jeollanam-do	<i>Notoacmea schrenckii</i>	2009	10	7	127.51195	34.32295
HM180722	MS-000624	Jeollanam-do	<i>Notoacmea schrenckii</i>	2009	10	7	127.51195	34.32295
HM180723	MS-000622	Jeollanam-do	<i>Notoacmea schrenckii</i>	2009	10	7	127.51195	34.32295
HM180724	MS-000621	Jeollanam-do	<i>Notoacmea schrenckii</i>	2009	10	7	127.51195	34.32295
HM180725	MS-000419	Chungcheongnam-do	<i>Notoacmea schrenckii</i>	2008	7	16	126.1427028	36.7254472
HM180726	MS-000421	Chungcheongnam-do	<i>Notoacmea schrenckii</i>	2008	7	21	126.1426639	36.7254167
HM180727	MS-000420	Chungcheongnam-do	<i>Notoacmea schrenckii</i>	2008	7	21	126.1426556	36.7254167
HM180728	MS-000660	Jeollanam-do	<i>Ocenebrellus inomatus</i>	2009	10	7	127.51195	34.32295
HM180729	PI-000416	Incheon	<i>Odontamblyopus rubicundus</i>	2009	9	22	126.20284	27.47083
HM180730	MS-000474	Jeollanam-do	<i>Omphalius pfeifferi carpenteri</i>	2009	7	20	127.51195	34.32295
HM180731	MS-000475	Jeollanam-do	<i>Omphalius pfeifferi carpenteri</i>	2009	7	20	127.51195	34.32295
HM180732	MS-000423	Chungcheongnam-do	<i>Omphalius rusticus</i> (Gmelin, 1791)	2008	7	17	126.1426889	36.7254361
HM180733	MS-000665	Incheon	<i>Omphalius rusticus</i> (Gmelin, 1791)	2009	9	20	-	-
HM180734	MS-000669	Incheon	<i>Omphalius rusticus</i> (Gmelin, 1791)	2009	9	20	-	-
HM180735	MS-000476	Jeollanam-do	<i>Omphalius rusticus</i> (Gmelin, 1791)	2009	7	20	127.51195	34.32295
HM180736	MS-000677	Incheon	<i>Ophioplocus japonicus</i>	2009	9	20	-	-
HM180737	MS-000515	Incheon	<i>Oratosquilla oratoria</i>	2009	9	22	126.20284	27.47083
HM180738	MS-000513	Incheon	<i>Oratosquilla oratoria</i>	2009	9	22	126.20284	27.47083
HM180739	MS-000514	Incheon	<i>Oratosquilla oratoria</i>	2009	9	22	126.20284	27.47083
HM180740	MS-000516	Incheon	<i>Oratosquilla oratoria</i>	2009	9	22	126.20284	27.47083
HM180741	MS-000518	Incheon	<i>Oratosquilla oratoria</i>	2009	9	22	126.20284	27.47083
HM180742	MS-000425	Chungcheongnam-do	<i>Oratosquilla oratoria</i>	2008	7	29	126.0240861	36.647575
HM180743	MS-000517	Incheon	<i>Oratosquilla oratoria</i>	2009	9	22	126.20284	27.47083
HM180744	MS-000545	Incheon	<i>Orithyia sinica</i>	2009	9	22	126.19308	37.39234
HM180745	MS-000546	Incheon	<i>Orithyia sinica</i>	2009	9	22	126.19308	37.39234
HM180746	MS-000547	Incheon	<i>Orithyia sinica</i>	2009	9	22	126.19308	37.39234
HM180747	MS-000548	Incheon	<i>Orithyia sinica</i>	2009	9	22	126.19308	37.39234
HM180748	MS-000700	Gyeonggi-do	<i>Oxya velox</i>	2009	9	26	-	-
HM180749	MS-000701	Gyeonggi-do	<i>Oxya velox</i>	2009	9	26	-	-
HM180750	MS-000699	Gyeonggi-do	<i>Oxya velox</i>	2009	9	26	-	-
HM180751	MS-000674	Incheon	<i>Pagurus similis</i> (Ortmann, 1892)	2009	9	20	-	-

HM180752	PI-000084	Jeollanam-do	<i>Paracanthurus hepatus</i>	2009	7	20	127.51195	34.32295
HM180753	PI-000338	Jeollanam-do	<i>Parajulis poecilepterus</i>	2009	11	20	127.51195	34.32295
HM180754	PI-000339	Jeollanam-do	<i>Parajulis poecilepterus</i>	2009	11	20	127.51195	34.32295
HM180755	PI-000341	Jeollanam-do	<i>Parajulis poecilepterus</i>	2009	11	20	127.51195	34.32295
HM180756	PI-000132	Jeollanam-do	<i>Parajulis poecilepterus</i>	2009	10	7	127.51195	34.32295
HM180757	PI-000135	Jeollanam-do	<i>Parajulis poecilepterus</i>	2009	10	7	127.51195	34.32295
HM180758	PI-000138	Jeollanam-do	<i>Parajulis poecilepterus</i>	2009	10	7	127.51195	34.32295
HM180759	PI-000137	Jeollanam-do	<i>Parajulis poecilepterus</i>	2009	10	7	127.51195	34.32295
HM180760	PI-000220	Jeollanam-do	<i>Parajulis poecilepterus</i>	2009	10	7	127.51195	34.32295
HM180761	PI-000222	Jeollanam-do	<i>Parajulis poecilepterus</i>	2009	10	7	127.51195	34.32295
HM180762	PI-000365	Jeollanam-do	<i>Parajulis poecilepterus</i>	2009	10	7	127.51195	34.32295
HM180763	PI-000342	Jeollanam-do	<i>Parajulis poecilepterus</i>	2009	11	20	127.51195	34.32295
HM180764	PI-000136	Jeollanam-do	<i>Parajulis poecilepterus</i>	2009	10	7	127.51195	34.32295
HM180765	PI-000322	Jeollanam-do	<i>Parajulis poecilepterus</i>	2009	11	20	127.51195	34.32295
HM180766	PI-000106	Jeollanam-do	<i>Parapercis multifasciata</i>	2009	7	20	127.51195	34.32295
HM180767	PI-000090	Jeollanam-do	<i>Parapercis multifasciata</i>	2009	7	20	127.51195	34.32295
HM180768	PI-000102	Jeollanam-do	<i>Parapercis multifasciata</i>	2009	7	20	127.51195	34.32295
HM180769	MS-000558	Jeollanam-do	<i>Patelloida saccharina lanx</i>	2009	10	7	127.51195	34.32295
HM180770	MS-000564	Jeollanam-do	<i>Patelloida saccharina lanx</i>	2009	10	7	127.51195	34.32295
HM180771	MS-000560	Jeollanam-do	<i>Patelloida saccharina lanx</i>	2009	10	7	127.51195	34.32295
HM180772	MS-000556	Jeollanam-do	<i>Patelloida saccharina lanx</i>	2009	10	7	127.51195	34.32295
HM180773	MS-000559	Jeollanam-do	<i>Patelloida saccharina lanx</i>	2009	10	7	127.51195	34.32295
HM180774	MS-000563	Jeollanam-do	<i>Patelloida saccharina lanx</i>	2009	10	7	127.51195	34.32295
HM180775	MS-000555	Jeollanam-do	<i>Patelloida saccharina lanx</i>	2009	10	7	127.51195	34.32295
HM180776	MS-000562	Jeollanam-do	<i>Patelloida saccharina lanx</i>	2009	10	7	127.51195	34.32295
HM180777	MS-000561	Jeollanam-do	<i>Patelloida saccharina lanx</i>	2009	10	7	127.51195	34.32295
HM180778	PI-000175	Jeollanam-do	<i>Pennahia argentata</i>	2009	10	7	127.51195	34.32295
HM180779	MS-000435	Chungcheongnam-do	<i>Philyra pisum</i> De Haan	2008	7	15	126.2721417	36.7089528
HM180780	MS-000433	Chungcheongnam-do	<i>Philyra pisum</i> De Haan	2008	7	15	126.2721417	36.7089361
HM180781	PI-000129	Jeollanam-do	<i>Pholis fangi</i>	2009	7	20	127.51195	34.32295
HM180782	PI-000128	Jeollanam-do	<i>Pholis fangi</i>	2009	7	20	127.51195	34.32295
HM180783	PI-000019	Jeollanam-do	<i>Pholis fangi</i>	2009	7	20	127.51195	34.32295
HM180784	PI-000020	Jeollanam-do	<i>Pholis fangi</i>	2009	7	20	127.51195	34.32295
HM180785	PI-000060	Jeollanam-do	<i>Pholis fangi</i>	2009	7	20	127.51195	34.32295
HM180786	MS-000678	Incheon	<i>Pilumnus minutus</i> De Haan	2009	9	20	-	-
HM180787	MS-000675	Incheon	<i>Pisidia serratifrons</i> (Stimpson, 1858)	2009	9	20	-	-
HM180788	PI-000005	Jeollanam-do	<i>Platycephalus indicus</i>	2009	7	20	127.51195	34.32295
HM180789	PI-000001	Jeollanam-do	<i>Platycephalus indicus</i>	2009	7	20	127.51195	34.32295
HM180790	PI-000007	Jeollanam-do	<i>Platycephalus indicus</i>	2009	7	20	127.51195	34.32295
HM180791	PI-000004	Jeollanam-do	<i>Platycephalus indicus</i>	2009	7	20	127.51195	34.32295
HM180792	PI-000003	Jeollanam-do	<i>Platycephalus indicus</i>	2009	7	20	127.51195	34.32295
HM180793	PI-000002	Jeollanam-do	<i>Platycephalus indicus</i>	2009	7	20	127.51195	34.32295
HM180794	PI-000006	Jeollanam-do	<i>Platycephalus indicus</i>	2009	7	20	127.51195	34.32295
HM180795	PI-000405	Jeollanam-do	<i>Platyrrhina sinensis</i>	2009	7	20	127.51195	34.32295
HM180796	PI-000113	Jeollanam-do	<i>Pleuronichthys cornutus</i>	2009	7	20	127.51195	34.32295
HM180797	PI-000258	Jeollanam-do	<i>Psenopsis anomala</i>	2009	10	7	127.51195	34.32295
HM180798	PI-000260	Jeollanam-do	<i>Psenopsis anomala</i>	2009	10	7	127.51195	34.32295
HM180799	PI-000364	Jeollanam-do	<i>Psenopsis anomala</i>	2009	10	7	127.51195	34.32295
HM180800	PI-000257	Jeollanam-do	<i>Psenopsis anomala</i>	2009	10	7	127.51195	34.32295
HM180801	PI-000256	Jeollanam-do	<i>Psenopsis anomala</i>	2009	10	7	127.51195	34.32295
HM180802	PI-000259	Jeollanam-do	<i>Psenopsis anomala</i>	2009	10	7	127.51195	34.32295
HM180803	PI-000053	Jeollanam-do	<i>Pseudogobius masago</i>	2009	7	20	127.51195	34.32295
HM180804	PI-000055	Jeollanam-do	<i>Pseudogobius masago</i>	2009	7	20	127.51195	34.32295
HM180805	PI-000057	Jeollanam-do	<i>Pseudogobius masago</i>	2009	7	20	127.51195	34.32295
HM180806	PI-000261	Jeollanam-do	<i>Pseudolabrus sieboldi</i>	2009	10	7	127.51195	34.32295
HM180807	PI-000081	Jeollanam-do	<i>Pterophryne histrio</i>	2009	7	20	127.51195	34.32295
HM180808	IN-000738	Chungcheongnam-do	<i>Ptomascopus morio</i> Kraatz	2007	8	6	126.40275	36.27128



HM180809	PI-000304	Jeollanam-do	<i>Raja boesemani</i>	2009	10	7	127.51195	34.32295
HM180810	PI-000302	Jeollanam-do	<i>Raja boesemani</i>	2009	10	7	127.51195	34.32295
HM180811	PI-000082	Jeollanam-do	<i>Raja boesemani</i>	2009	7	20	127.51195	34.32295
HM180812	PI-000111	Jeollanam-do	<i>Raja boesemani</i>	2009	7	20	127.51195	34.32295
HM180813	PI-000112	Jeollanam-do	<i>Raja boesemani</i>	2009	7	20	127.51195	34.32295
HM180814	MS-000645	Jeollanam-do	<i>Rapana venosa</i>	2009	10	7	127.51195	34.32295
HM180815	MS-000647	Jeollanam-do	<i>Rapana venosa</i>	2009	10	7	127.51195	34.32295
HM180816	MS-000646	Jeollanam-do	<i>Rapana venosa</i>	2009	10	7	127.51195	34.32295
HM180817	MS-000494	Chungcheongnam-do	<i>Reishia clavigera</i>	2009	8	12	126.17155	36.35226
HM180818	MS-000497	Chungcheongnam-do	<i>Reishia clavigera</i>	2009	8	12	126.17155	36.35226
HM180819	MS-000496	Chungcheongnam-do	<i>Reishia clavigera</i>	2009	8	12	126.17155	36.35226
HM180820	MS-000493	Chungcheongnam-do	<i>Reishia clavigera</i>	2009	8	12	126.17155	36.35226
HM180821	MS-000495	Chungcheongnam-do	<i>Reishia clavigera</i>	2009	8	12	126.17155	36.35226
HM180822	MS-000573	Jeollanam-do	<i>Reishia luteostoma</i>	2009	10	7	127.51195	34.32295
HM180823	MS-000566	Jeollanam-do	<i>Reishia luteostoma</i>	2009	10	7	127.51195	34.32295
HM180824	MS-000569	Jeollanam-do	<i>Reishia luteostoma</i>	2009	10	7	127.51195	34.32295
HM180825	MS-000565	Jeollanam-do	<i>Reishia luteostoma</i>	2009	10	7	127.51195	34.32295
HM180826	MS-000568	Jeollanam-do	<i>Reishia luteostoma</i>	2009	10	7	127.51195	34.32295
HM180827	MS-000567	Jeollanam-do	<i>Reishia luteostoma</i>	2009	10	7	127.51195	34.32295
HM180828	MS-000572	Jeollanam-do	<i>Reishia luteostoma</i>	2009	10	7	127.51195	34.32295
HM180829	MS-000571	Jeollanam-do	<i>Reishia luteostoma</i>	2009	10	7	127.51195	34.32295
HM180830	MS-000570	Jeollanam-do	<i>Reishia luteostoma</i>	2009	10	7	127.51195	34.32295
HM180831	MS-000628	Jeollanam-do	<i>Reishia luteostoma</i>	2009	10	7	127.51195	34.32295
HM180832	PI-000046	Jeollanam-do	<i>Repomucenus beniteguri</i>	2009	7	20	127.51195	34.32295
HM180833	MS-000586	Jeollanam-do	<i>Ruditapes philippinarum</i>	2009	10	7	127.51195	34.32295
HM180834	MS-000588	Jeollanam-do	<i>Ruditapes philippinarum</i>	2009	10	7	127.51195	34.32295
HM180835	PI-000016	Jeollanam-do	<i>Saurida undosquamis</i>	2009	7	20	127.51195	34.32295
HM180836	PI-000017	Jeollanam-do	<i>Saurida undosquamis</i>	2009	7	20	127.51195	34.32295
HM180837	MS-000539	Incheon	<i>Saxidomus purpuratus</i>	2009	9	22	126.19308	37.39234
HM180838	MS-000482	Jeollanam-do	<i>Saxidomus purpuratus</i>	2009	7	20	127.51195	34.32295
HM180839	MS-000629	Jeollanam-do	<i>Saxidomus purpuratus</i>	2009	10	7	127.51195	34.32295
HM180840	PI-000204	Jeollanam-do	<i>Scomberomorus nipponius</i>	2009	10	7	127.51195	34.32295
HM180841	PI-000205	Jeollanam-do	<i>Scomberomorus nipponius</i>	2009	10	7	127.51195	34.32295
HM180842	PI-000167	Jeollanam-do	<i>Scyliorhinus torazame</i>	2009	10	7	127.51195	34.32295
HM180843	PI-000094	Jeollanam-do	<i>Scyliorhinus torazame</i>	2009	7	20	127.51195	34.32295
HM180844	PI-000083	Jeollanam-do	<i>Scyliorhinus torazame</i>	2009	7	20	127.51195	34.32295
HM180845	PI-000279	Jeollanam-do	<i>Sebastes inermis</i>	2009	10	7	127.51195	34.32295
HM180846	PI-000153	Jeollanam-do	<i>Sebastes inermis</i>	2009	10	7	127.51195	34.32295
HM180847	PI-000151	Jeollanam-do	<i>Sebastes inermis</i>	2009	10	7	127.51195	34.32295
HM180848	PI-000152	Jeollanam-do	<i>Sebastes inermis</i>	2009	10	7	127.51195	34.32295
HM180849	PI-000282	Jeollanam-do	<i>Sebastes inermis</i>	2009	10	7	127.51195	34.32295
HM180850	PI-000168	Jeollanam-do	<i>Sebastes inermis</i>	2009	10	7	127.51195	34.32295
HM180851	PI-000149	Jeollanam-do	<i>Sebastes inermis</i>	2009	10	7	127.51195	34.32295
HM180852	PI-000173	Jeollanam-do	<i>Sebastes inermis</i>	2009	10	7	127.51195	34.32295
HM180853	PI-000169	Jeollanam-do	<i>Sebastes inermis</i>	2009	10	7	127.51195	34.32295
HM180854	PI-000171	Jeollanam-do	<i>Sebastes inermis</i>	2009	10	7	127.51195	34.32295
HM180855	PI-000172	Jeollanam-do	<i>Sebastes inermis</i>	2009	10	7	127.51195	34.32295
HM180856	PI-000150	Jeollanam-do	<i>Sebastes inermis</i>	2009	10	7	127.51195	34.32295
HM180857	PI-000278	Jeollanam-do	<i>Sebastes inermis</i>	2009	10	7	127.51195	34.32295
HM180858	PI-000154	Jeollanam-do	<i>Sebastes inermis</i>	2009	10	7	127.51195	34.32295
HM180859	PI-000281	Jeollanam-do	<i>Sebastes inermis</i>	2009	10	7	127.51195	34.32295
HM180860	PI-000157	Jeollanam-do	<i>Sebastes inermis</i>	2009	10	7	127.51195	34.32295
HM180861	PI-000276	Jeollanam-do	<i>Sebastes inermis</i>	2009	10	7	127.51195	34.32295
HM180862	PI-000275	Jeollanam-do	<i>Sebastes inermis</i>	2009	10	7	127.51195	34.32295
HM180863	PI-000156	Jeollanam-do	<i>Sebastes inermis</i>	2009	10	7	127.51195	34.32295
HM180864	PI-000086	Jeollanam-do	<i>Sebastes inermis</i>	2009	7	20	127.51195	34.32295
HM180865	PI-000158	Jeollanam-do	<i>Sebastes inermis</i>	2009	10	7	127.51195	34.32295

HM180866	PI-000155	Jeollanam-do	<i>Sebastes inermis</i>	2009	10	7	127.51195	34.32295
HM180867	PI-000183	Jeollanam-do	<i>Sebastes schlegeli</i>	2009	10	7	127.51195	34.32295
HM180868	PI-000182	Jeollanam-do	<i>Sebastes schlegeli</i>	2009	10	7	127.51195	34.32295
HM180869	PI-000085	Jeollanam-do	<i>Sebastes schlegeli</i>	2009	7	20	127.51195	34.32295
HM180870	PI-000420	Jeollanam-do	<i>Sebastes marmoratus</i>	2009	7	20	127.51195	34.32295
HM180871	PI-000423	Jeollanam-do	<i>Sebastes marmoratus</i>	2009	7	20	127.51195	34.32295
HM180872	PI-000406	Jeollanam-do	<i>Sebastes marmoratus</i>	2009	7	20	127.51195	34.32295
HM180873	PI-000273	Jeollanam-do	<i>Setipinna tenuifilis</i>	2009	10	7	127.51195	34.32295
HM180874	PI-000274	Jeollanam-do	<i>Setipinna tenuifilis</i>	2009	10	7	127.51195	34.32295
HM180875	PI-000073	Jeollanam-do	<i>Siganus fuscescens</i>	2009	7	20	127.51195	34.32295
HM180876	PI-000141	Jeollanam-do	<i>Sillago japonica</i>	2009	10	7	127.51195	34.32295
HM180877	PI-000145	Jeollanam-do	<i>Sillago japonica</i>	2009	10	7	127.51195	34.32295
HM180878	PI-000143	Jeollanam-do	<i>Sillago japonica</i>	2009	10	7	127.51195	34.32295
HM180879	PI-000142	Jeollanam-do	<i>Sillago japonica</i>	2009	10	7	127.51195	34.32295
HM180880	PI-000148	Jeollanam-do	<i>Sillago japonica</i>	2009	10	7	127.51195	34.32295
HM180881	PI-000147	Jeollanam-do	<i>Sillago japonica</i>	2009	10	7	127.51195	34.32295
HM180882	PI-000022	Jeollanam-do	<i>Sillago japonica</i>	2009	7	20	127.51195	34.32295
HM180883	IN-000736	Gangwon-do	<i>Silpha koreana</i> Cho et Kwon, 1999	2007	6	4	127.46462	37.16126
HM180884	IN-000737	Gangwon-do	<i>Silpha koreana</i> Cho et Kwon, 1999	2007	6	4	127.46462	37.16126
HM180885	MS-000479	Jeollanam-do	<i>Sinonovacula constricta</i>	2009	7	20	127.51195	34.32295
HM180886	MS-000478	Jeollanam-do	<i>Sinonovacula constricta</i>	2009	7	20	127.51195	34.32295
HM180887	IN-000778	Jeju-do	<i>Sophraps striata</i> (Brenske, 1892)	2006	5	15	-	-
HM180888	PI-000240	Jeollanam-do	<i>Sphyaena pinguis</i>	2009	10	7	127.51195	34.32295
HM180889	PI-000101	Jeollanam-do	<i>Sphyaena pinguis</i>	2009	7	20	127.51195	34.32295
HM180890	PI-000202	Jeollanam-do	<i>Syngnathus schlegeli</i>	2009	10	7	127.51195	34.32295
HM180891	PI-000196	Jeollanam-do	<i>Syngnathus schlegeli</i>	2009	10	7	127.51195	34.32295
HM180892	IN-000783	Chungcheongnam-do	<i>Synuchus cycloderus</i> (Bates, 1873)	2006	10	11	127.28289	38.08452
HM180893	PI-000232	Jeollanam-do	<i>Takifugu niphobles</i>	2009	10	7	127.51195	34.32295
HM180894	PI-000233	Jeollanam-do	<i>Takifugu niphobles</i>	2009	10	7	127.51195	34.32295
HM180895	PI-000230	Jeollanam-do	<i>Takifugu niphobles</i>	2009	10	7	127.51195	34.32295
HM180896	PI-000234	Jeollanam-do	<i>Takifugu niphobles</i>	2009	10	7	127.51195	34.32295
HM180897	PI-000231	Jeollanam-do	<i>Takifugu niphobles</i>	2009	10	7	127.51195	34.32295
HM180898	PI-000076	Jeollanam-do	<i>Takifugu niphobles</i>	2009	7	20	127.51195	34.32295
HM180899	PI-000226	Jeollanam-do	<i>Takifugu niphobles</i>	2009	10	7	127.51195	34.32295
HM180900	PI-000228	Jeollanam-do	<i>Takifugu niphobles</i>	2009	10	7	127.51195	34.32295
HM180901	PI-000224	Jeollanam-do	<i>Takifugu niphobles</i>	2009	10	7	127.51195	34.32295
HM180902	PI-000225	Jeollanam-do	<i>Takifugu niphobles</i>	2009	10	7	127.51195	34.32295
HM180903	PI-000227	Jeollanam-do	<i>Takifugu niphobles</i>	2009	10	7	127.51195	34.32295
HM180904	PI-000229	Jeollanam-do	<i>Takifugu niphobles</i>	2009	10	7	127.51195	34.32295
HM180905	PI-000391	Jeollanam-do	<i>Takifugu niphobles</i>	2009	7	20	127.51195	34.32295
HM180906	PI-000387	Jeollanam-do	<i>Takifugu niphobles</i>	2009	7	20	127.51195	34.32295
HM180907	PI-000388	Jeollanam-do	<i>Takifugu xanthopterus</i>	2009	7	20	128.51195	35.32295
HM180908	PI-000396	Jeollanam-do	<i>Takifugu xanthopterus</i>	2009	7	20	128.51195	35.32295
HM180909	PI-000126	Jeollanam-do	<i>Takifugu xanthopterus</i>	2009	7	20	127.51195	34.32295
HM180910	PI-000397	Jeollanam-do	<i>Takifugu xanthopterus</i>	2009	7	20	128.51195	35.32295
HM180911	PI-000394	Jeollanam-do	<i>Takifugu xanthopterus</i>	2009	7	20	128.51195	35.32295
HM180912	PI-000103	Jeollanam-do	<i>Takifugu xanthopterus</i>	2009	7	20	127.51195	34.32295
HM180913	PI-000398	Jeollanam-do	<i>Takifugu xanthopterus</i>	2009	7	20	128.51195	35.32295
HM180914	PI-000127	Jeollanam-do	<i>Takifugu xanthopterus</i>	2009	7	20	127.51195	34.32295
HM180915	PI-000395	Jeollanam-do	<i>Takifugu xanthopterus</i>	2009	7	20	128.51195	35.32295
HM180916	MS-000472	Jeollanam-do	<i>Telmessus acutidens</i>	2009	7	20	127.51195	34.32295
HM180917	PI-000104	Jeollanam-do	<i>Thamnaconus modestus</i>	2009	7	20	127.51195	34.32295
HM180918	PI-000385	Jeollanam-do	<i>Thrysa chefuensis</i>	2009	7	20	127.51195	34.32295
HM180919	PI-000105	Jeollanam-do	<i>Thrysa chefuensis</i>	2009	7	20	127.51195	34.32295
HM180920	PI-000108	Jeollanam-do	<i>Thrysa chefuensis</i>	2009	7	20	127.51195	34.32295
HM180921	PI-000109	Jeollanam-do	<i>Thrysa chefuensis</i>	2009	7	20	127.51195	34.32295
HM180922	PI-000336	Jeollanam-do	<i>Thryssa adela</i>	2009	11	20	127.51195	34.32295

HM180923	PI-000335	Jeollanam-do	<i>Thryssa adela</i>	2009	11	20	127.51195	34.32295
HM180924	PI-000334	Jeollanam-do	<i>Thryssa adela</i>	2009	11	20	127.51195	34.32295
HM180925	PI-000192	Jeollanam-do	<i>Trachurus japonicus</i>	2009	10	7	127.51195	34.32295
HM180926	PI-000120	Jeollanam-do	<i>Trachurus japonicus</i>	2009	7	20	127.51195	34.32295
HM180927	PI-000071	Jeollanam-do	<i>Tribolodon hakonensis</i>	2009	7	20	127.51195	34.32295
HM180928	PI-000371	Chungcheongnam-do	<i>Tridentiger trigenocephalus</i>	2009	8	12	126.17155	36.35226
HM180929	MS-000551	Incheon	<i>Turbo(Batillus) cornutus</i>	2009	9	22	126.19308	37.39234
HM180930	MS-000549	Incheon	<i>Turbo(Batillus) cornutus</i>	2009	9	22	126.19308	37.39234
HM180931	MS-000550	Incheon	<i>Turbo(Batillus) cornutus</i>	2009	9	22	126.19308	37.39234
HM180932	MS-000639	Jeollanam-do	<i>Turbo(Batillus) cornutus</i>	2009	10	7	127.51195	34.32295
HM180933	MS-000640	Jeollanam-do	<i>Turbo(Batillus) cornutus</i>	2009	10	7	127.51195	34.32295
HM180934	MS-000638	Jeollanam-do	<i>Turbo(Batillus) cornutus</i>	2009	10	7	127.51195	34.32295
HM180935	MS-000464	Chungcheongnam-do	<i>Uca lactea lactea</i>	2008	7	29	126.1279833	36.6805306
HM180936	IN-000704	Seoul	<i>Vespa simillima simillima Smith</i>	2009	8	17	-	-
HM180937	IN-000705	Seoul	<i>Vespa simillima simillima Smith</i>	2009	8	17	-	-
HM180938	PI-000124	Jeollanam-do	<i>Zebrias fasciatus</i>	2009	7	20	127.51195	34.32295
HM180939	PI-000121	Jeollanam-do	<i>Zebrias fasciatus</i>	2009	7	20	127.51195	34.32295
HM180940	PI-000404	Jeollanam-do	<i>Zoarces gillii</i>	2009	7	20	127.51195	34.32295
HM180941	PI-000419	Jeollanam-do	<i>Zoarces gillii</i>	2009	7	20	127.51195	34.32295