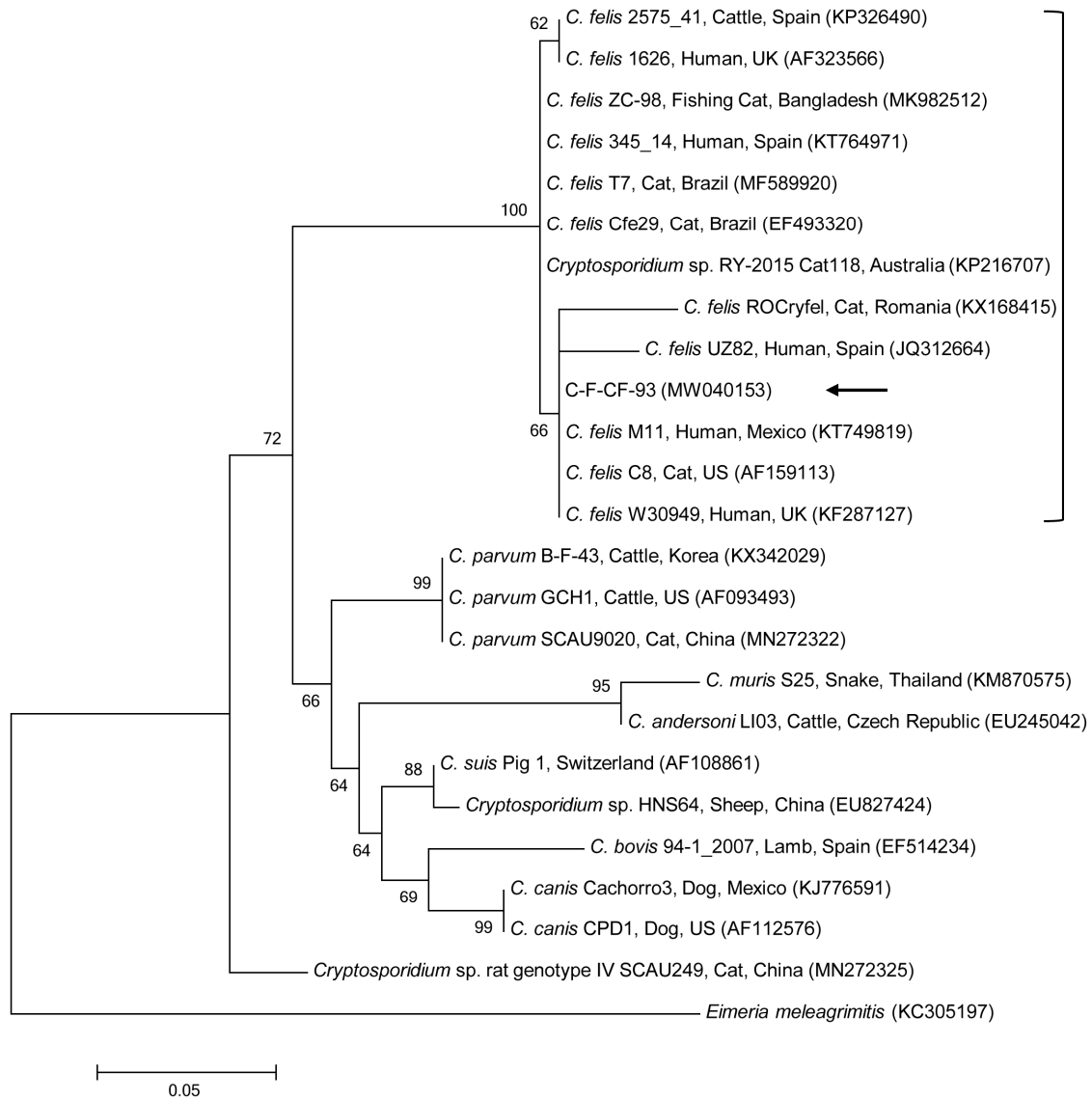
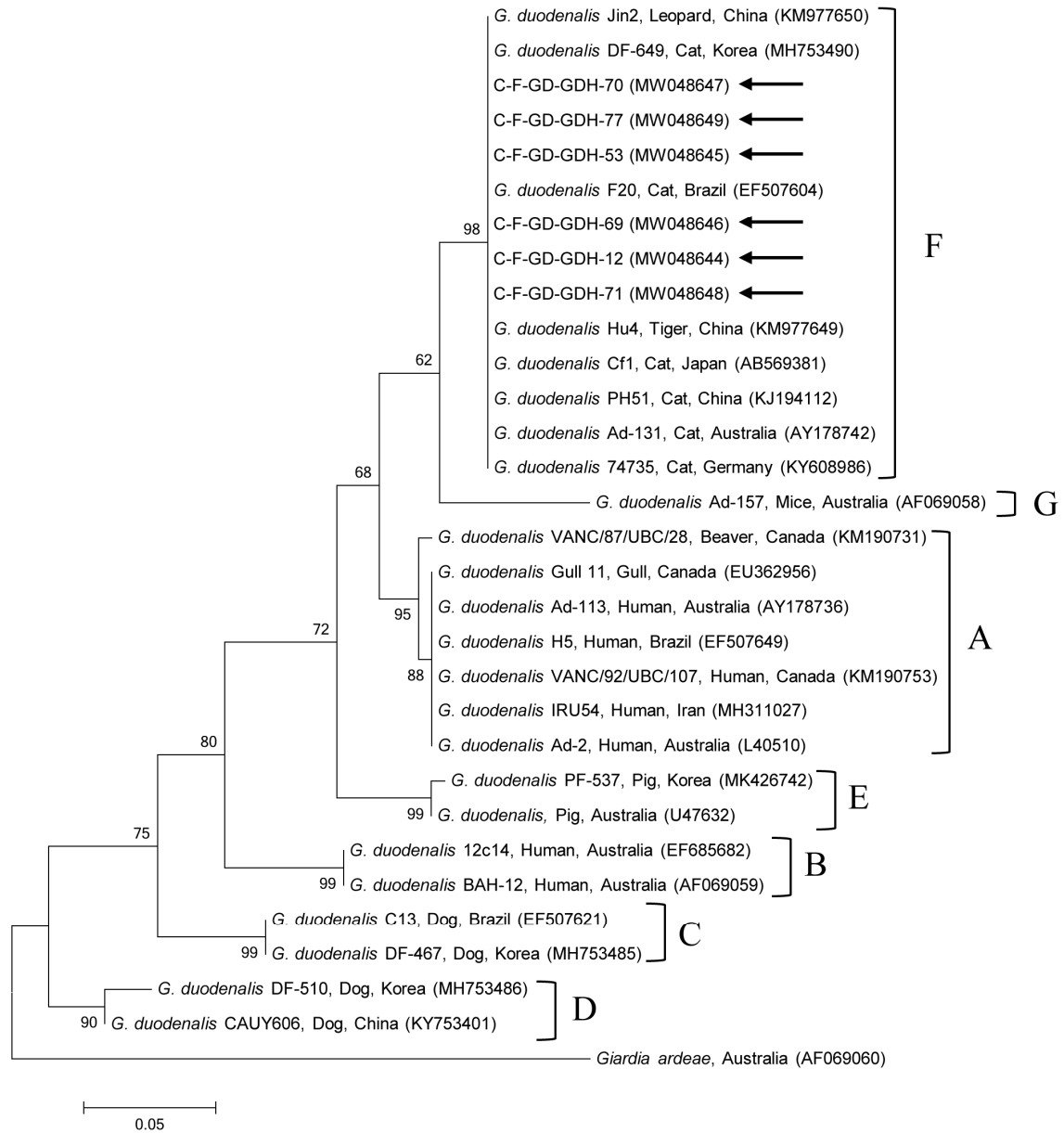
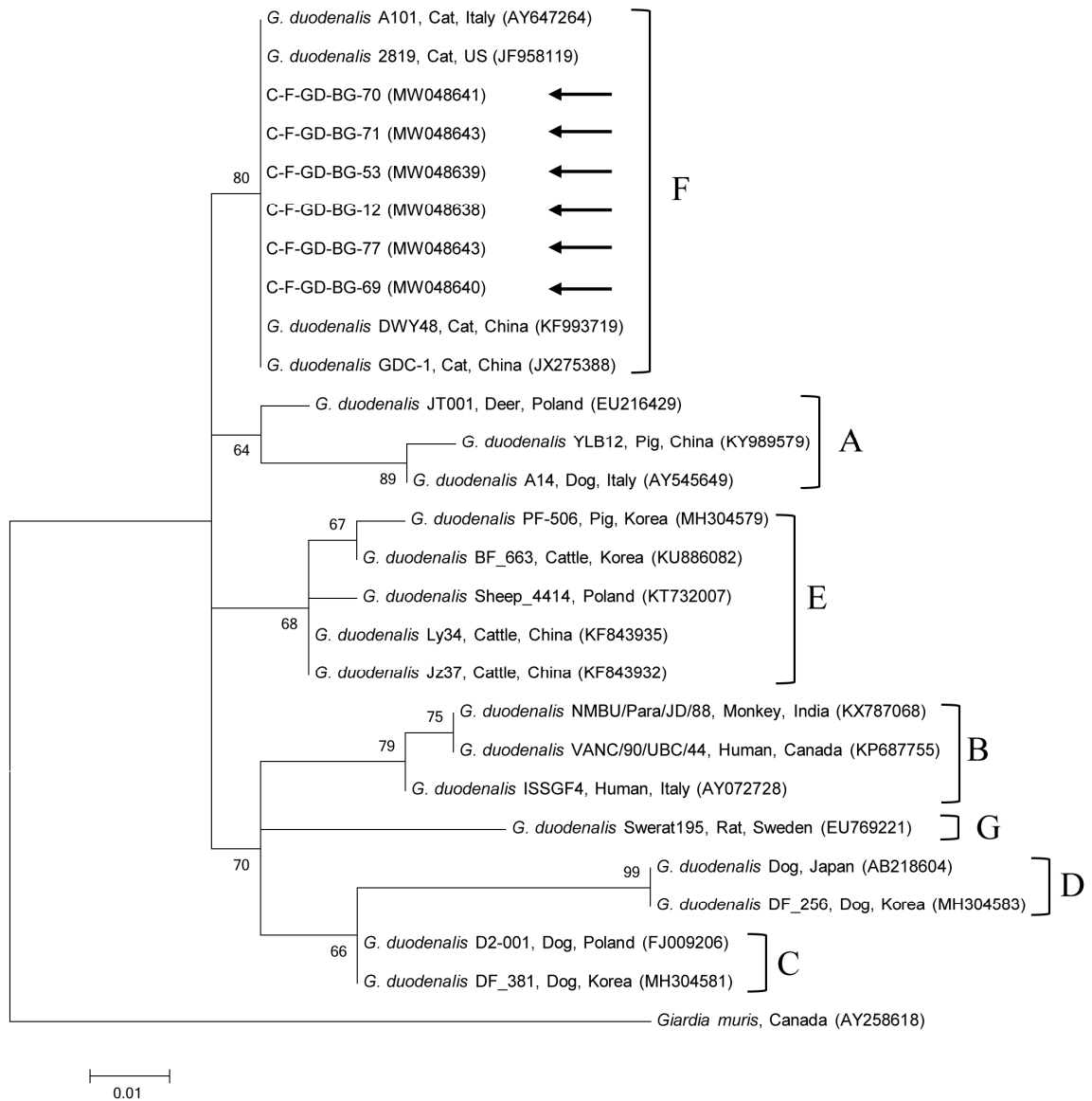




**Figure S1:** Phylogenetic tree of *Cryptosporidium* spp. based on 18S rRNA gene sequences. The maximum likelihood method was used to construct the tree and the arrow indicates the sequence detected in this study. The GenBank accession numbers are shown in parentheses. *Eimeria meleagrimitis* was used as the outgroup. Branch numbers mean bootstrap support levels (1000 replicates), and the scale bar displays the substitution numbers for each nucleotide.



**Figure S2:** Phylogenetic tree of *Giardia duodenalis* based on the *gdh* gene sequences. The maximum likelihood method was used to construct the tree, and the arrows indicate the sequences detected in this study. The GenBank accession numbers are shown in parentheses and the *G. duodenalis* assemblages A–G are indicated. *Giardia ardeae* was used as the outgroup. Branch numbers mean bootstrap support levels (1000 replicates), and the scale bar displays the substitution numbers for each nucleotide.



**Figure S3:** Phylogenetic tree of *Giardia duodenalis* based on  $\beta$ -giardin gene sequences. The maximum likelihood method was used to construct the tree, and the arrows indicate the sequences detected in this study. The GenBank accession numbers are shown in parentheses and the *G. duodenalis* assemblages A–G are indicated. *Giardia muris* was used as the outgroup. Branch numbers mean bootstrap support levels (1000 replicates), and the scale bar displays the substitution numbers for each nucleotide.



**Figure S4:** Phylogenetic tree of *Toxoplasma gondii* based on B1 gene sequences. The maximum likelihood method was used to construct the tree, and the arrows indicate the sequences detected in this study. The GenBank accession numbers are shown in parentheses. *Trypanosoma grayi* was used as the outgroup. Branch numbers mean bootstrap support levels (1000 replicates), and the scale bar displays the substitution numbers for each nucleotide.

**Table S1:** Primers used for the detection of zoonotic gastrointestinal protozoa and microsporidia in cats in the present study.

| Organism                    | Gene     | Primer | Sequence 5' to 3'                  | Size (bp) | Amplification condition                                                                     | Reference              |
|-----------------------------|----------|--------|------------------------------------|-----------|---------------------------------------------------------------------------------------------|------------------------|
| <i>Cryptosporidium</i> spp. | 18S rRNA | 18SiF  | AGT GAC AAG AAA TAA CAA TAC<br>AGG | 295       | 94 °C/ 5 min;<br>35 cycles:<br>94 °C/ 30 s,<br>60 °C/ 30 s,<br>72 °C/ 60 s;<br>72 °C/ 5 min | Cheun et al.,<br>2007  |
|                             |          | 18SiR  | CT GCT TTA AGC ACT CTA ATT TTC     |           |                                                                                             |                        |
| <i>Giardia duodenalis</i>   | gdh      | Gdh1   | TTC CGT RTY CAG TAC AAC TC         | 755       | 94 °C/5 min;<br>35 cycles:<br>94 °C/ 30 s,<br>50 °C/ 30 s,<br>72°C/ 60 s;<br>72°C/ 5 min    | Cacciò et al.,<br>2008 |
|                             |          | Gdh2   | ACC TCG TTC TGR GTG GCG CA         |           |                                                                                             |                        |
|                             |          | Gdh3   | ATG ACY GAG CTY CAG AGG CAC<br>GT  | 530       |                                                                                             |                        |
|                             |          | Gdh4   | GTG GCG CAR GGC ATG ATG CA         |           |                                                                                             |                        |

|                                |                  |                   |                                           |     |                                                                                                                                                                                            |                          |
|--------------------------------|------------------|-------------------|-------------------------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| <i>Giardia duodenalis</i>      | $\beta$ -giardin | G7                | AAG CCC GAC GAC CTC ACC CGC<br>AGT GC     | 753 | 94 °C/ 5 min;<br>40 cycles:<br>94 °C/ 30 s,<br>65 °C/ 30 s,<br>72 °C/ 60 s;<br>72 °C/ 5 min                                                                                                | Cacciò et al.,<br>2002   |
|                                |                  | G759              | AGG CCG CCC TGG ATC TTC GAG<br>ACG AC     |     |                                                                                                                                                                                            |                          |
|                                |                  | G376              | CAT AAC GAC GCC ATC GCG GCT<br>CTC AGG AA | 384 |                                                                                                                                                                                            |                          |
|                                |                  | G759              | AGG CCG CCC TGG ATC TTC GAG<br>ACG AC     |     |                                                                                                                                                                                            |                          |
| <i>Blastocystis</i> sp.        | 18S rRNA         | RD5               | ATC TGG TTG ATC CTG CCA GT                | 600 | 94 °C/ 5 min;<br>35 cycles:<br>94 °C/ 30 s,<br>58 °C/ 30 s,<br>72 °C/ 30 s;<br>72 °C/ 5 min                                                                                                | Ramírez et al.,<br>2014  |
|                                |                  | BhRD <sub>r</sub> | GAG CTT TTT AAC TGC AAC AAC G             |     |                                                                                                                                                                                            |                          |
| <i>Enterocytozoon bieneusi</i> | ITS region       | EBITS3            | GGT CAT AGG GAT GAA GAG                   | 435 | 94 °C/ 5 min;<br>35 cycles:<br>94 °C/ 30 s,<br>57 °C/ 30 s,<br>72 °C/ 40 s;<br>72 °C/ 5 min<br>94 °C/ 5 min;<br>30 cycles:<br>94 °C/ 30 s,<br>55 °C/ 30 s,<br>72 °C/ 30 s;<br>72 °C/ 5 min | Sulaiman et al.,<br>2003 |
|                                |                  | EBITS4            | TTC GAG TTC TTT CGC GCT C                 |     |                                                                                                                                                                                            |                          |
|                                |                  | EBITS1            | GCT CTG AAT ATC TAT GGC T                 | 390 |                                                                                                                                                                                            |                          |
|                                |                  | EBITS2.4          | ATC GCC GAC GGA TCC AAG TG                |     |                                                                                                                                                                                            |                          |
| <i>T. gondii</i>               | B1               | Tg1               | GTT CTG TCC TAT CGC AAC G                 | 579 | 94 °C/ 5 min;<br>35 cycles:<br>94 °C/ 30 s,<br>48 °C/ 40 s,<br>72 °C/ 45 s;<br>72 °C/ 5 min<br>94 °C/ 5 min;<br>35 cycles:<br>94 °C/ 45 s,<br>56 °C/ 60 s,<br>72 °C/ 90 s;<br>72 °C/ 5 min | Grigg et al.,<br>2001    |
|                                |                  | Tg2               | ACG GAT GCA GTT CCT TTC TG                |     |                                                                                                                                                                                            |                          |
|                                |                  | Tg3               | TCT TCC CAG ACG TGG ATT TC                | 516 |                                                                                                                                                                                            |                          |
|                                |                  | Tg4               | CTC GAC AAT ACG CTG CTT GA                |     |                                                                                                                                                                                            |                          |