

Table S1: Cases of canine GIST and pathologic characteristics at diagnosis.

Case	Tumor location	Longest diameter (cm)	Mitotic index: per hpf* / per 10hpf	Tumor rupture at diagnosis	IHC: cKit / DOG1	cKit mutation (ITD**, exons 8 & 11)	Metastasis at diagnosis
1	Intestine	7	0-1 / 7	Absent	- / +	Absent	Present
2	Cecum	3	0-1 / 4	Absent	+ / +	Exon 11	Absent
3	Intestine	4	0-2 / 7	Absent	+ / +	Absent	Absent
4	Cecum	3	1-2 / 14	Present	+ / +	Absent	Absent
5	Cecum	5	NE† / 8	Absent	+ / NE	NE	Absent
6	Cecum	6	2 / NE	Absent	+ / +	NE	Present
7	Stomach	5	NE / 14	Absent	+ / NE	NE	Absent
8	Cecum	5	NE / 2	Absent	+ / NE	NE	Present
9	Intestine	4	NE / NE	Absent	+ / NE	NE	Present
10	Stomach	14	NE / 3	Absent	+ / NE	NE	Present
11	Cecum	5	0-2 / 9	Absent	+ / +	QNS‡	Absent
12	Cecum	3	0-1 / 4	Absent	+ / +	Absent	Present
13	Cecum	3	0-1 / 4	Absent	+ / +	Absent	Present
14	Cecum	6	0-2 / 5	Present	+ / +	Absent	Present
15	Intestine	8	2 / NE	Absent	+ / NE	NE	Absent
16	Cecum	3	NE / 1	Absent	+ / NE	NE	Absent
17	Intestine	3	4 / 5	Present	+ / NE	NE	Present
18	Stomach	2	0-1 / 4	Absent	+ / +	Absent	Absent
19	Intestine	5	0-3 / 11	Absent	+ / +	Absent	Present
20	Intestine	10	1-3 / 13	Absent	+ / +	Absent	Absent
21	Colon	NE	2 / NE	Absent	+ / NE	NE	Absent
22	Intestine	5	0-2 / 8	Absent	+ / +	Absent	Absent
23	Intestine	8	4 / 27	Absent	+ / +	Absent	Present
24	Cecum	6	1 / NE	Absent	+ / NE	NE	Absent
25	Intestine	NE	NE / 22	Absent	+ / NE	NE	Absent
26	Intestine	NE	NE / 1	Absent	+ / NE	NE	Absent
27	Cecum	NE	NE / 4	Absent	+ / NE	NE	Absent

*hpf = high power field, 400x magnification

**ITD = internal tandem duplication

†NE = not examined

‡QNS= sample quantity not sufficient for re-testing