

**Table SI. Primers used for molecular experiments**

Target gene	Primer ID	Sequence (5'>3')	Tm (°C)	Reference
<i>BRAF</i> exon 15	forward	CTTCATGAAGACCTCACAGT	54.2	(15)
	reverse	CTTTCTAGTAACTCAGCAGC		
<i>NRAS</i> exon 2	forward	CCCCTTACCCCTCCACACC	57.0	(14)
	reverse	TGGCAAATACACAGAGGAAGC		
<i>c-KIT</i> exon 11	forward	CCAGAGTGCTCTAATGACTGA	57.0	This study
	reverse	GTGACATGGAAGCCCCTG		
<i>c-KIT</i> exon 13	forward	ATCAGTTTGCCAGTTGTGCT	54.4	This study
	reverse	CAGCTTGGACACGGCTTTA		
<i>c-KIT</i> exon 17	forward	GGTTTTCTTTCTCCTCCAAC	55.0	This study
	reverse	GCAGGACTGTCAAGCAGAGAAT		
<i>GAPDH</i>	forward	CTGCACCACCAACTGCTTAG	58.5	This study
	reverse	GCAGTGATGGCATGGACTGT		