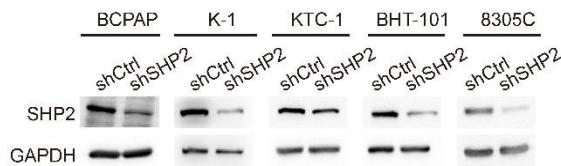


Table S1: The primers of RT-qPCR assays

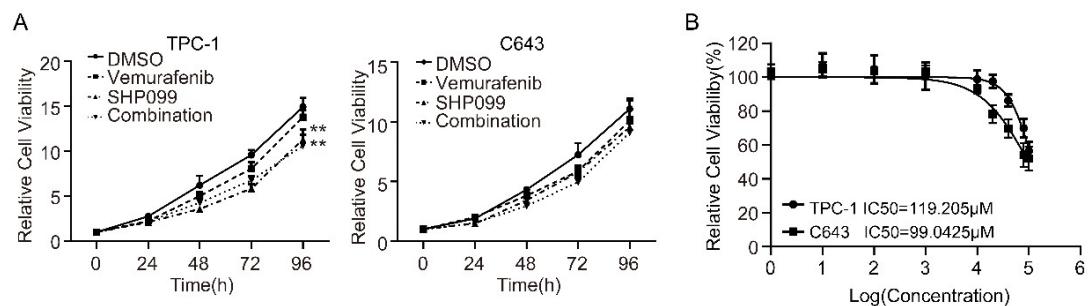
	Forward	Reverse
FGF2	AGCGGCTGTACTGCACAAACGG	CCTTGATAGACACAACCTCCTCTC
PDGFA	CAGCGACTCCTGGAGATAGACT	CGATGCTTCTCTCCTCCGAATG
PDGFB	GAGATGCTGAGTGACCACTCGA	GTCATGTTCAGGTCCAACTCGG
IGF1	CTCTCAGTCGTGTGGAGAC	CAGCCTCCTTAGATCACAGCTC
IGF2	TGGCATCGTTGAGGAGTGCTGT	ACGGGGTATCTGGGAAGTTGT
VEGFA	TTGCCTTGCTGCTCTACCTCCA	GATGGCAGTAGCTGCGCTGATA
VEGFB	AAGGACAGTGCTGTGAAGCCAG	TGGAGTGGATGGGTGATGTCA
EGF	TGCGATGCCAACGAGTCTGTGA	GCATAGCCCAATCTGAGAACACCAC
GAS6	CCTTCCATGAGAAGGACCTCGT	GAAGCACTGCATCCTCGTGTTC
PROS1	GGCTCCTACTATCCTGGTTCTG	CAAGGCAAGCATAACACCAGTGC
EFNA1	CTGTCTGAGAAGTTCCAGCGCT	CCACTGACAGTCACCTTCAACC
ANGPT4	GTGGTGTCTACACCATCCAGGT	TCCGCTGAAAATTACCGGTGCC
EFNB2	GCAAGTTCTGCTGGATCAACCAG	GCTGTTCCGCTCTGTGCTAGAA
WNT5A	TACGAGAGTGCTCGCATCCTCA	TGTCTTCAGGCTACATGAGCCG
AXL	GTGGAGCTGTGATGGAAGGC	CGCTTCACTCAGGAAATCCTCC
EGFR	AACACCCTGGTCTGGAAGTACG	TCGTTGGACAGCCTCAAGACC
FGFR1	GCACATCCAGTGGCTAAAGCAC	AGCACCTCCATCTCTTGTGG
FGFR2	GTGCCGAATGAAGAACACGACC	GGCGTGTGTTATCCTCACCAG
FGFR3	TCCATCTCCTGGCTGAAGAACG	TGTTCTCCACGACGCAGGTGTA
FGFR4	AACACCGTCAAGTCCGCTGTC	CATCACGAGACTCCAGTGCTGA
HER2	GGAAGTACACGATGCGGAGACT	ACCTCCTCAGCTCCGTCTCTT
HER3	CTATGAGGCATACTTGGAACGG	GCACAGTTCAAAGACACCCGA
IGFR1	TCGACATCCGCAACGACTATC	CCAGGGCGTAGTTGTAGAAGAG
MET	TGCACAGTTGGTCCTGCCATGA	CAGCCATAGGACCGTATTCGG
PDGFRA	GACTTCGCCAAAGTGGAGGAG	AGCCACCGTGAGTTCAGAACGC
PDGFRB	TGCAGACATCGAGTCCTCCAAC	GCTTAGCACTGGAGACTCGTTG
RET	GTCCTCTGCTCCACTTCAACG	CCTGGCAGTTTCCACACAGAC
VEGFR2	GGAACCTCACTATCCGAGAGT	CCAAGTTCGTCTTCTGGGC



Supplementary Figure 1. Phosphorylation levels of SHP2 were significantly higher in non-BRAFV600E mutant thyroid cancer cell lines than in BRAFV600E mutant thyroid cancer cell lines.



Supplementary Figure 2. Validation of knockdown levels of SHP2 in thyroid cancer cell lines with different BRAFV600E.



Supplementary Figure 3. The vemurafenib had no effect in non-BRAF mutant thyroid cancer cell lines. **A** Cell viability detection by a CCK-8 assay in TPC-1 and C643 cell lines. **B** Vemurafenib IC50 detection by a CCK-8 assay in TPC-1 and C643 cell lines.