

## Trametinib modulates cancer multidrug resistance by targeting ABCB1 transporter

### Supplementary Material

**Supplementary Table 1: Summary of the potential residues in transmembrane (TM) domains of ABCB1 interacting with Trametinib in comparison with QZ59-RRR, QZ59-SSS and verapamil.**

TM	Residue	QZ59-RRR	QZ59-SSS	Verapamil	Trametinib
<b>1</b>	His 60			x	
	Ala 63			x	
	Leu 64	x	x	x	
	Met 67		x		
	Met 68	x	x		x
	Phe 71	x	x		
<b>2</b>	Tyr114		x		
	Val121			x	
<b>4</b>	Ser218			x	
<b>5</b>	Met295		x		
	Phe299		x		x
	Ile302		x	x	x
	Tyr303		x		x
	Tyr306	x	x		x
	Phe331				x
<b>6</b>	Phe 332	x	x		x
	Leu 335		x	x	x
	Ile 336	x	x		x
	Ala 338			x	
	Phe 339	x	x		
	Asn 717		x		x
<b>7</b>	Gly718				x
	Gln 721	x	x		x
	Phe 724	x	x	x	x
	Ala725			x	x
	Phe 728	x	x		x
	Phe 766		x		
<b>9</b>	Gln834				x
	Ala837			x	
	Asn838			x	x
<b>10</b>	Ile 864			x	
	Ala 867			x	
	Gly 868			x	
<b>11</b>	Phe938			x	
	Thr941			x	
	Met945		x		
	Tyr949	x	x		x
	Phe953		x		
<b>12</b>	Leu 971		x	x	
	Phe 974	x	x		
	Ser 975	x			x
	Val 978			x	

	Phe979	x	x		x
	Gly 980			x	
	Ala 981			x	
	Met 982	x	x		x
	Ala983	x	x		x
	Gln 986	x	x		x
	Val987		x		x