

**Supplementary Table 1: Primary untreated (Prim/UT) KIT<sup>+</sup> (n = 8) vs. Metastatic resistant (Met/Res) KIT<sup>+</sup> (n = 4), pathways with *P* < 0.05.**

Rank	Pathway Name	# Input Genes in Pathway	# Pathway Genes on Chip	Input Gene Name	<i>P</i> -value
1	<b>Cell cycle</b>	14	118		9.003E-06
2	<b>DNA replication</b>	8	36		3.078E-05
3	<b>Wnt signaling pathway</b>	2	152	Dkk4, Wnt5A	7.296E-05
4	P53 signaling pathway	9	69		2.184E-04
5	TGF-beta signaling pathway	1	87		7.245E-04
6	Basal cell carcinoma	1	55		1.181E-03
7	Adherens junction	3	78		1.307E-03
8	Pancreatic cancer	1	72		1.612E-02
9	<b>Phosphatidylinositol signaling system</b>	3	76		2.323E-02
10	Basal excision repair	4	36		4.063E-2