

S5 Table. Gene Ontology enrichment analysis_Pathway

ID	Name	p-value	Hit in Query List
1270433	Chromatin organization	0.0000421	ARID1A,SMARCA4,CHD4,KMT2D,PBRM1
1270434	Chromatin modifying enzymes	0.0000421	ARID1A,SMARCA4,CHD4,KMT2D,PBRM1
1457794	Signaling by MET	0.000134	KRAS,LAMC2,PIK3R1
M39402	Focal adhesion	0.00019	TNK2,LAMC2,PIK3R1,CAPN2
1270439	RMTs methylate histone arginines	0.0002	ARID1A,SMARCA4,PBRM1
M164	ErbB1 downstream signaling	0.000462	KRAS,PIK3R1,CAPN2
P00057	Wnt signaling pathway	0.000902	ARID1A,SMARCA4,APC2,NKD1
83060	Apoptosis	0.00103	KRAS,PIK3R1,CAPN2
1026136	Signaling pathways regulating pluripotency of stem cells	0.00105	KRAS,PIK3R1,APC2
M12868	Pathways in cancer	0.00114	KRAS,LAMC2,PIK3R1,APC2
M39520	Regulation of actin cytoskeleton	0.0013	KRAS,PIK3R1,APC2
M39334	EGF/EGFR signaling pathway	0.00166	KRAS,TNK2,PIK3R1
83105	Pathways in cancer	0.00234	KRAS,LAMC2,PIK3R1,APC2
M7253	Focal adhesion	0.00292	LAMC2,PIK3R1,CAPN2
83067	Focal adhesion	0.00292	LAMC2,PIK3R1,CAPN2
658418	Viral carcinogenesis	0.00301	KRAS,PIK3R1,CHD4
83089	Regulation of actin cytoskeleton	0.00349	KRAS,PIK3R1,APC2
M18306	Regulation of actin cytoskeleton	0.00354	KRAS,PIK3R1,APC2
1269599	TCF dependent signaling in response to Wnt	0.00495	SMARCA4,KMT2D,AMER1