

Additional File 2: Table of conditional probabilities for output genes LACTB, ERMAP and CFL2 to be over-expressed given an upstream gene was under-expressed simultaneously.

Output Processes		Actin Linkage	Cytoskeletal Reorganization	Actin Stabilization	Average
Output Processes	Genes	ERMAP	LACTB	CFL2	
Upstream Genes	ARHGEF19	0.72	0.67	0.92	0.77
	RAC2	0.72	0.67	0.92	0.77
	CDH1	0.71	0.67	0.92	0.767
	GNG11	0.71	0.67	0.92	0.767
	RTKN	0.71	0.67	0.92	0.767
	ECM1	0.71	0.67	0.92	0.767
	ITGB2	0.71	0.67	0.92	0.767
	GNA11	0.71	0.67	0.92	0.767
	GPRC5A	0.71	0.67	0.92	0.767
	PAK2	0.71	0.67	0.92	0.767
	ERMP1	0.71	0.67	0.92	0.767
	CDC42-IT1	0.71	0.67	0.92	0.767
	DGKZ	0.71	0.67	0.92	0.767
	DAGLB	0.71	0.67	0.92	0.767
	PAAF1	0.71	0.67	0.92	0.767
	PIP	0.71	0.67	0.92	0.767
	ARHGAP6	0.70	0.67	0.92	0.763
	PIP5K1B	0.70	0.67	0.92	0.763
	PAK1	0.71	0.67	0.91	0.763
	DCL1	0.69	0.67	0.92	0.760
	PIP4K2A	0.68	0.66	0.92	0.753
	LIMK2	0.69	0.67	0.86	0.740
	CD44	0.57	0.66	0.92	0.717
	ROCK2	0.57	0.66	0.89	0.707
	RHOJ	0.22	0.63	0.89	0.580