

Supplementary Table 3. Co-occurrence tendency of pairs of alterations of the DEGs (cBioPortal).

Gene1	Gene2	Log2 odds ratio	P value	Q value	Tendency
DCN	FCN3	>3	<0.001	<0.001	co-occurrence
MOXD1	LAMA2	>3	<0.001	<0.001	co-occurrence
DCN	MOXD1	>3	<0.001	<0.001	co-occurrence
DCN	CXCL14	>3	<0.001	0.001	co-occurrence
FCN3	LAMA2	>3	<0.001	0.003	co-occurrence
SFRP4	COMP	>3	<0.001	0.005	co-occurrence
DCN	LAMA2	2.676	<0.001	0.009	co-occurrence
SFRP4	STMN2	>3	0.001	0.009	co-occurrence
IGJ	CXCL14	>3	0.003	0.02	co-occurrence
IGJ	CPA3	>3	0.003	0.023	co-occurrence
STMN2	NPY1R	2.644	0.004	0.024	co-occurrence
MOXD1	NPY1R	>3	0.008	0.046	co-occurrence

Note: Odds ratio = (odds of alteration in Gene2 given alteration in Gene1)/(odds of alteration in Gene2 given lack of alteration in Gene1). A positive value of “Log2 odds ratio” suggests alternations in a pair of genes co-occur in the same samples, while a negative value suggests alternations in a pair of genes are mutually exclusive and tend to occur in different samples.