

Table S6. The result of MCODE method in Cytoscape.

MCODE::Clusters (1)	MCODE::Node	MCODE::Score	name	shared name
Cluster 0	Clustered	63.407984	BUB1	BUB1
	Unclustered	0	RTKN2	RTKN2
	Unclustered	4	WDR76	WDR76
	Unclustered	15.625731	EME1	EME1
	Unclustered	7	XRCC2	XRCC2
	Unclustered	25	E2F2	E2F2
	Unclustered	9	WDR62	WDR62
	Unclustered	36.950067	MTFR2	MTFR2
	Unclustered	45.165457	FANCD2	FANCD2
	Unclustered	46.503771	CHAF1B	CHAF1B
Cluster 0	Clustered	58.65124	UHRF1	UHRF1
Cluster 0	Clustered	56.040865	ORC1	ORC1
	Unclustered	41.702866	BLM	BLM
	Unclustered	17	PIF1	PIF1
Cluster 0	Clustered	52.551119	PKMYT1	PKMYT1
	Unclustered	35.841414	ORC6	ORC6
Cluster 0	Clustered	59.104895	CENPM	CENPM
Cluster 0	Clustered	59.43609	ASF1B	ASF1B
Cluster 0	Clustered	56.756177	E2F8	E2F8
Cluster 0	Clustered	61.074627	KIF18B	KIF18B
	Unclustered	34.963455	TCF19	TCF19
Cluster 0	Clustered	58.382294	RAD51	RAD51
	Unclustered	13	FAM72B	FAM72B
	Unclustered	32.944538	GSG2	GSG2
Cluster 0	Clustered	52.519056	CLSPN	CLSPN
	Unclustered	30.941288	KIAA1524	KIAA1524
Cluster 0	Clustered	59.025461	SPC25	SPC25
Cluster 0	Clustered	58.385417	SGOL1	SGOL1
	Unclustered	50.377578	GIN51	GIN51
	Unclustered	37.452935	PRR11	PRR11
Cluster 0	Clustered	59.28169	TROAP	TROAP
Cluster 0	Clustered	63.407984	KIF20A	KIF20A
Cluster 0	Clustered	63.407984	CEP55	CEP55
Cluster 0	Clustered	63.407984	ASPM	ASPM
Cluster 0	Clustered	63.407984	CDK1	CDK1
	Unclustered	23.794872	CIT	CIT
Cluster 0	Clustered	63.407984	TOP2A	TOP2A
Cluster 0	Clustered	63.407984	CENPF	CENPF
Cluster 0	Clustered	59.499658	KIF14	KIF14
Cluster 0	Clustered	63.407984	KIF4A	KIF4A
Cluster 0	Clustered	62.575758	PRC1	PRC1
Cluster 0	Clustered	63.407984	TPX2	TPX2
Cluster 0	Clustered	63.407984	PBK	PBK
Cluster 0	Clustered	63.407984	AURKB	AURKB
Cluster 0	Clustered	63.407984	KIF2C	KIF2C
Cluster 0	Clustered	63.407984	MELK	MELK
Cluster 0	Clustered	63.407984	CCNA2	CCNA2
Cluster 0	Clustered	63.407984	CDCA8	CDCA8
Cluster 0	Clustered	63.407984	CCNB2	CCNB2
Cluster 0	Clustered	63.604396	PLK1	PLK1
Cluster 0	Clustered	63.407984	CDC20	CDC20
Cluster 0	Clustered	63.407984	UBE2C	UBE2C
Cluster 0	Clustered	63.407984	TTK	TTK
Cluster 0	Clustered	62.619048	NEK2	NEK2
Cluster 0	Clustered	63.407984	RRM2	RRM2
Cluster 0	Clustered	63.407984	BUB1B	BUB1B
Cluster 0	Clustered	63.407984	KIF15	KIF15
Cluster 0	Clustered	63.407984	NUF2	NUF2
Cluster 0	Clustered	63.407984	BIRC5	BIRC5

Cluster 0	Clustered	61.768968	SHCBP1	SHCBP1
Cluster 0	Clustered	62.532468	CENPA	CENPA
Cluster 0	Clustered	63.407984	EXO1	EXO1
Cluster 0	Clustered	63.604396	HJURP	HJURP
Cluster 0	Clustered	61.203999	CDKN3	CDKN3
Cluster 0	Clustered	59.715789	DEPDC1	DEPDC1
Cluster 0	Clustered	63.985263	FOXM1	FOXM1
Cluster 0	Clustered	63.407984	MKI67	MKI67
Cluster 0	Clustered	62.016577	DTL	DTL
Cluster 0	Clustered	54.707692	CENPK	CENPK
Cluster 0	Clustered	58.968792	CKAP2L	CKAP2L
Cluster 0	Clustered	63.985263	ZWINT	ZWINT
Cluster 0	Clustered	63.407984	CDC45	CDC45
Cluster 0	Seed	63.985263	CDCA2	CDCA2
Cluster 0	Clustered	63.407984	CDCA5	CDCA5
Cluster 0	Clustered	58.900256	ARHGAP11	ARHGAP11A
Cluster 0	Clustered	61.725222	KIAA0101	KIAA0101
Cluster 0	Clustered	61.844211	KNTC1	KNTC1
Cluster 0	Clustered	57.601405	HELLS	HELLS
Cluster 0	Clustered	62.822967	SKA3	SKA3
Cluster 0	Clustered	61.506494	RAD54L	RAD54L
Cluster 0	Clustered	58.735733	ERCC6L	ERCC6L
Cluster 0	Clustered	63.81203	MCM10	MCM10
Cluster 0	Clustered	61.852174	KIFC1	KIFC1
Cluster 0	Clustered	54	STIL	STIL
Cluster 0	Clustered	59.003805	SKA1	SKA1
Cluster 0	Clustered	52.044262	PARPBP	PARPBP
Cluster 0	Clustered	60.520344	CDCA3	CDCA3
Cluster 0	Clustered	60.701053	GTSE1	GTSE1
Cluster 0	Clustered	52.551119	TICRR	TICRR
Cluster 0	Clustered	57.191346	CDC25A	CDC25A
Cluster 0	Clustered	60.969309	CDT1	CDT1
Cluster 0	Clustered	55.111111	CENPI	CENPI
Cluster 0	Clustered	63.407984	CENPE	CENPE
Cluster 0	Clustered	59.982441	MCM2	MCM2
Cluster 0	Clustered	59	DEPDC1B	DEPDC1B
Cluster 0	Clustered	52.91486	POLQ	POLQ
Cluster 0	Clustered	59.096651	KIF18A	KIF18A
Cluster 0	Clustered	63.407984	NDC80	NDC80
	Unclustered	49.84917	LMNB1	LMNB1
Cluster 0	Clustered	63.407984	KIF11	KIF11
Cluster 0	Clustered	63.81203	KIF23	KIF23
Cluster 0	Clustered	63.407984	CCNB1	CCNB1
Cluster 0	Clustered	63.407984	NCAPG	NCAPG
Cluster 0	Clustered	63.407984	DLGAP5	DLGAP5
Cluster 0	Clustered	63.407984	NCAPH	NCAPH
Cluster 0	Clustered	61.195716	RAD51AP1	RAD51AP1
Cluster 0	Clustered	61.656338	OIP5	OIP5
Cluster 0	Clustered	59.355332	MYBL2	MYBL2
Cluster 0	Clustered	62.320675	CDC6	CDC6
Cluster 0	Clustered	62.532468	TRIP13	TRIP13
Cluster 0	Clustered	60.652716	ANLN	ANLN