Supplemental Table S1. Functional annotation of genes significantly correlated with CCN4 expression in 56 melanoma cell lines associated with the Cancer Cell Line Encyclopedia. Adjusted p-values are reported for functional annotation. A Fisher Exact test p-value adjusted for multiple hypothesis testing indicated whether gene expression was differentially associated with an increase in CCN4 expression. DAVID (http://david.ncifcrf.gov) was used for functional annotation.

KEGG_PATHWAY: DNA Replication
BH Adj p-value 2.30E-06

Gene_Symbol	Adj Fisher Exact P-value	Correlation w/ CCN4
FEN1	1.11E-04	-0.239
MCM3	1.42E-06	-0.239
MCM4	1.61E-05	-0.233
MCM6	3.46E-04	-0.188
MCM7	1.42E-06	-0.285
PCNA	1.36E-04	-0.195
POLA1	1.42E-06	-0.176
POLD1	1.11E-04	-0.145
POLD2	3.46E-04	0.017
POLE	2.43E-04	-0.261
PRIM1	3.69E-07	-0.257
RFC2	4.42E-06	-0.291
RFC3	4.42E-06	-0.259
RFC4	4.54E-05	-0.201
RFC5	3.69E-07	-0.289
RPA2	1.61E-05	-0.182
RPA3	3.46E-04	-0.102
SSBP1	3.33E-04	-0.205

KEGG_PATHWAY: Cell Cycle
BH Adj p-value 1.30E-02

Gene_Symbol	Adj Fisher Exact P-value	Correlation w/ CCN4
CCNB1	2.23E-02	-0.181
CCNB2	1.00E-02	-0.112
CCNE1	4.41E-05	-0.233
CDC25A	4.66E-06	-0.272
CDC45	3.69E-07	-0.256
CDC6	1.42E-06	-0.291
CDC7	3.46E-04	-0.224
CDCA5	1.06E-05	-0.290
CDCA7	1.61E-05	-0.142
CDK1	2.07E-03	-0.247
CDK2	4.41E-05	-0.189
CDK4	3.33E-04	-0.109
CDK5	4.54E-05	-0.199
CUL1	3.33E-04	-0.212
DBF4	4.42E-06	-0.283
E2F1	1.11E-04	-0.219
E2F2	4.54E-05	-0.231
E2F3	3.46E-04	-0.226
EP300	4.66E-06	-0.168
ESPL1	1.42E-06	-0.339
HDAC1	1.36E-04	-0.183
MAD1L1	4.54E-05	-0.116
MCM3	1.42E-06	-0.239
MCM4	1.61E-05	-0.233
MCM5	2.07E-03	-0.185
MCM6	3.46E-04	-0.188
MCM7	1.42E-06	-0.285
ORC1	4.42E-06	-0.242
ORC5	1.36E-04	-0.250
ORC6	1.11E-04	-0.311
PCNA	1.36E-04	-0.195
PKMYT1	4.41E-05	-0.281
PTTG1	1.96E-08	-0.253

Transcription Factors and Cell interaction Genes

Gene_Symbol	Adj Fisher Exact P-value	Correlation w/ CCN4
CEACAM1	2.84E-05	-0.147
CGN	3.69E-07	-0.130
MITF	4.89E-04	-0.255
NRCAM	7.67E-04	-0.175
CDH11	4.54E-05	0.180
FN1	1.42E-05	0.233
VIM	1.07E-02	0.411
ZEB1	1.21E-04	0.678

KEGG_PATHWAY: PI3K-Akt Signaling
BH Adj p-value 1.90E-04

Gene_Symbol	Adj Fisher Exact P-value	Correlation w/ CCN4
CHRM2	1.36E-04	0.042
COL1A1	1.36E-04	0.151
COL1A2	2.18E-06	0.629
COL3A1	3.46E-04	0.176
COL5A1	3.33E-04	0.166
COL6A1	2.44E-09	0.077
COL6A2	1.36E-04	0.294
COL6A3	1.42E-06	0.308
COMP	4.66E-06	0.233
CREB3L1	8.31E-08	0.404
EGFR	7.67E-04	0.135
FGF2	1.61E-05	0.169
FGF5	2.18E-06	0.106
FGF7	1.11E-04	0.177
FN1	1.11E-04	0.365
GNGT2	1.21E-04	0.370
HGF	4.41E-05	0.041
IL6	7.67E-04	0.025
ITGA11	1.36E-04	0.463
ITGA5	1.21E-04	0.305
ITGA8	1.61E-05	0.133
ITGAV	9.09E-04	0.290
ITGB1	3.69E-07	0.367
JAK1	1.36E-04	0.190
LAMB2	4.54E-05	0.115
LAMC2	9.11E-05	0.968
LPAR1	9.11E-05	0.301
MAPK3	3.46E-04	0.113
NGF	4.54E-05	0.130
PDGFC	1.61E-05	0.372
PDGFRA	1.19E-05	0.283
PDGFRB	4.54E-05	0.538
TEK	4.41E-05	0.148
THBS1	1.21E-04	0.194
TNXB	9.11E-05	0.114
VEGFC	1.96E-08	0.354

UP_KEYWORD: Extracellular Matrix
BH Adj p-value 1.30E-21

Gene_Symbol	Adj Fisher Exact P-value	Correlation w/ CCN4
ADAMTS1	1.61E-05	0.148
ADAMTS10	1.36E-04	0.151
ADAMTS12	2.18E-06	0.629
ADAMTS2	3.46E-04	0.176
ADAMTS5	3.33E-04	0.166
ADAMTS6	2.44E-09	0.077
ADAMTS7	1.36E-04	0.294
ADAMTSL1	1.42E-06	0.308
ADAMTSL4	4.66E-06	0.233
ASPN	1.16E-07	0.215
BGN	1.61E-05	0.262
CCDC80	2.84E-05	0.191
COL12A1	4.66E-06	0.209
COL1A1	1.61E-05	0.280
COL1A2	1.11E-04	0.365
COL3A1	4.42E-06	0.270
COL5A1	4.66E-06	0.395
COL6A1	4.66E-06	0.656
COL6A2	9.87E-07	0.691
COL6A3	4.54E-05	0.172
COL8A1	3.33E-04	0.111
COMP	1.42E-06	0.171
CPZ	4.54E-05	0.502
CTGF	1.61E-05	0.163
DCN	4.54E-05	0.115
DPT	9.11E-05	0.968
ECM2	1.36E-04	0.358
EFEMP1	1.11E-04	0.162
ELN	1.06E-05	0.179
FBLN2	4.42E-06	0.291
FBN1	3.69E-07	0.323
FBN2	9.09E-04	0.117
FN1	1.42E-06	0.245
FREM3	7.67E-04	0.040
HSPG2	9.11E-05	0.114
LAMB2	1.61E-05	0.382
LAMC2	1.42E-06	-0.023
LOXL2	8.98E-04	0.278
LTBP2	4.42E-06	0.320
LUM	9.11E-05	0.227
MFAP4	9.87E-07	0.573
MFAP5	1.06E-05	0.210
MMP19	1.42E-06	0.443
MMP2	1.21E-04	0.725
NID2	8.31E-08	0.105
PODN	1.06E-05	0.187
PODNL1	3.46E-04	0.496
POSTN	1.11E-04	0.199
PXDN	1.19E-05	0.362
SPOCK1	6.55E-04	0.176
SPON1	4.54E-05	0.189
TNXB	3.69E-07	0.144
VCAN	6.55E-04	0.336
WNT2	1.42E-06	0.101
WNT5B	4.42E-06	0.313