

Supplementary Table S1. Select candidate genes by comparing gene expression in different culture conditions

	Gene Symbol	Gene Description
1	SARS	seryl-tRNA synthetase
2	MSTO1	misato 1, mitochondrial distribution and morphology regulator
3	PAPPA2	pappalysin 2
4	ARHGEF2	Rho/Rac guanine nucleotide exchange factor (GEF) 2
5	KCNT2	potassium channel, subfamily T, member 2
6	ERO1LB	ERO1-like beta (<i>S. cerevisiae</i>)
7	UNC5B	unc-5 homolog B (<i>C. elegans</i>)
8	NUCB2	nucleobindin 2
9	CARS	cysteinyl-tRNA synthetase
10	HYOU1	hypoxia up-regulated 1
11	MARS	methionyl-tRNA synthetase
12	ALDH1L2	aldehyde dehydrogenase 1 family, member L2
13	DNAJC3	DnaJ (Hsp40) homolog, subfamily C, member 3
14	SEL1L	sel-1 suppressor of lin-12-like (<i>C. elegans</i>)
15	WARS	tryptophanyl-tRNA synthetase
16	SNORD116-16	small nucleolar RNA, C/D box 116-16
17	CHAC1	ChaC, cation transport regulator homolog 1 (<i>E. coli</i>)
18	HERPUD1	homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1
19	AARS	alanyl-tRNA synthetase
20	CDRT4	CMT1A duplicated region transcript 4
21	MOCOS	molybdenum cofactor sulfurase
22	CEBPG	CCAAT/enhancer binding protein (C/EBP), gamma
23	C5AR1	complement component 5a receptor 1
24	SLC1A5	solute carrier family 1 (neutral amino acid transporter), member 5
25	CGB8	chorionic gonadotropin, beta polypeptide 8
26	GFPT1	glutamine--fructose-6-phosphate transaminase 1
27	IL1A	interleukin 1, alpha
28	GPR1	G protein-coupled receptor 1
29	PABPC1L	poly(A) binding protein, cytoplasmic 1-like
30	SDF2L1	stromal cell-derived factor 2-like 1
31	DNAJB11	DnaJ (Hsp40) homolog, subfamily B, member 11
32	LAMP3	lysosomal-associated membrane protein 3
33	SGTB	small glutamine-rich tetratricopeptide repeat (TPR)-containing, beta
34	SPDYE3	speedy/RINGO cell cycle regulator family member E3
35	TCEA1	transcription elongation factor A (SII), 1

36	PSAT1	phosphoserine aminotransferase 1
37	PAEP	progesterone-associated endometrial protein
38	IARS	isoleucyl-tRNA synthetase
39	MT-TD	mitochondrially encoded tRNA aspartic acid
40	RPS6KA6	ribosomal protein S6 kinase, 90kDa, polypeptide 6
41	FAM129A	family with sequence similarity 129, member A
42	CLGN	calmegin

Supplementary Table S2. List of genes identified by microarray analysis as markedly enriched in NCI-H460 cells transfected with HYOU1 siRNA (SiHYOU1).

Log2Ratio1	Gene Symbol	Gene Description
2.993252	MX1	MX dynamin-like GTPase 1
2.954084	OAS2	2-5-oligoadenylate synthetase 2
2.7839865	IFIT3	interferon-induced protein with tetratricopeptide repeats 3
2.76579	IFIT1	interferon-induced protein with tetratricopeptide repeats 1
2.571722	IFI27	interferon, alpha-inducible protein 27
2.311319	IFI6	interferon, alpha-inducible protein 6
2.240972	IFI44L	interferon-induced protein 44-like
2.230919	IFITM1	interferon induced transmembrane protein 1
2.005804	SNORD113-8	small nucleolar RNA, C/D box 113-8
1.990765	GBP1	guanylate binding protein 1, interferon-inducible
1.969187	DDX60L	DEAD (Asp-Glu-Ala-Asp) box polypeptide 60-like
1.934284	IFIT2	interferon-induced protein with tetratricopeptide repeats 2
1.847849	DDX58	DEAD (Asp-Glu-Ala-Asp) box polypeptide 58
1.791231	MTRNR2L4	MT-RNR2-like 4
1.78864	GOLGA2P6	golgin A2 pseudogene 6
1.780715	IFIH1	interferon induced, with helicase C domain 1
1.729414	RSAD2	radical S-adenosyl methionine domain containing 2
1.662937	PARP9	poly(ADP-ribose) polymerase family member 9
1.633025	PARP14	poly(ADP-ribose) polymerase family member 14
1.61665	IFI44	interferon-induced protein 44
1.5863391	SLC35G6	solute carrier family 35, member G6
1.58186	RNU6-14P	RNA, U6 small nuclear 14, pseudogene
1.567021	IGHV3-38	immunoglobulin heavy variable 3-38 (non-functional)
1.534096	OASL	2-5-oligoadenylate synthetase-like
1.524359	STAT2	signal transducer and activator of transcription 2
1.520996	XAF1	XIAP associated factor 1
1.486252	TP53TG3D	TP53 target 3D
1.444503	TRBV5-4	T cell receptor beta variable 5-4
1.439716	PAGE5	P antigen family, member 5 (prostate associated)
1.439616	PLSCR1	phospholipid scramblase 1
1.431209	TRIM21	tripartite motif containing 21
1.416247	HERC5	HECT and RLD domain containing E3 ubiquitin protein ligase 5
1.405104	HIST1H2AA	histone cluster 1, H2aa
1.366573	BST2	bone marrow stromal cell antigen 2
1.361803	USP17L5	ubiquitin specific peptidase 17-like family member 5
1.3605884	ZNF100	zinc finger protein 100

Supplementary Table S3. List of genes identified by microarray analysis as markedly depleted in NCI-H460 cells transfected with HYOU1 siRNA (SiHYOU1).

Log2Ratio1	Gene Symbol	Gene Description
-2.232794	HYOU1	hypoxia up-regulated 1
-2.077372	POM121L7	POM121 transmembrane nucleoporin-like 7
-1.626501	CLEC4M	C-type lectin domain family 4, member M
-1.5840026	IFNA7	interferon, alpha 7
-1.428988	TEX35	testis expressed 35
-1.384743	KRTAP10-4	keratin associated protein 10-4
-1.350586	MALL	mal, T-cell differentiation protein-like
-1.34502	PIRC66	piwi-interacting RNA cluster 66