

Supplementary Table 2. List of Transcription Factors in the Whole OL Cell Proteome

No.	Protein ID	Protein name	L/H ratio
1	IPI00017617	DDX5 Probable ATP-dependent RNA helicase DDX5	0.49
2	IPI00002502	ATF3 Isoform 1 of Cyclic AMP-dependent transcription factor ATF-3 SRA1 cDNA FLJ30398 fis, clone BRACE2008402, highly similar to	0.53
3	IPI00102313	Steroid receptor RNA activator 1 MED27 Isoform 1 of Mediator of RNA polymerase II transcription	0.56
4	IPI00302652	subunit 27	0.65
5	IPI00016746	CBFB Isoform 1 of Core-binding factor subunit beta	0.66
6	IPI00001871	PAWR PRKC apoptosis WT1 regulator protein	0.67
7	IPI00012575	PIR Pirin	0.71
8	IPI00430812	CNBP Isoform 1 of Cellular nucleic acid-binding protein	0.73
9	IPI00008536	YEATS4 YEATS domain-containing protein 4	0.73
10	IPI00000305	MED11 Mediator of RNA polymerase II transcription subunit 11	0.73
11	IPI00003505	TRIP13 Isoform 1 of Pachytene checkpoint protein 2 homolog	0.73
12	IPI00021997	CREG1 Protein CREG1	0.79
13	IPI00010833	ZNF148 Zinc finger protein 148	0.8
14	IPI00002806	TAF12 Isoform TAFII20 of Transcription initiation factor TFIID subunit	0.8
15	IPI00251559	RNF20 E3 ubiquitin-protein ligase BRE1A SMARCD2 Isoform 1 of SWI/SNF-related matrix-associated actin-	0.81
16	IPI00853043	dependent regulator of chromatin subfamily D member 2	0.81
17	IPI00299413	GABPA GA-binding protein alpha chain	0.82
18	IPI00011609	UBE3A Isoform II of Ubiquitin-protein ligase E3A	0.83
19	IPI00895911	CNBP cellular nucleic acid-binding protein isoform 2	0.83
20	IPI00009958	COPS5 COP9 signalosome complex subunit 5	0.84
21	IPI00299000	PA2G4 Proliferation-associated protein 2G4	0.84
22	IPI00174852	MED20 Mediator of RNA polymerase II transcription subunit 20	0.84
23	IPI00018813	COPS2 Isoform 2 of COP9 signalosome complex subunit 2	0.85
24	IPI00060046	TADA1 Transcriptional adapter 1	0.86
25	IPI00165026	SETD3 Isoform 1 of Histone-lysine N-methyltransferase setd3	0.86
26	IPI00006552	CNOT7 CCR4-NOT transcription complex subunit 7	0.87
27	IPI00008965	JUN Transcription factor AP-1	0.87
28	IPI00411886	NOC2L Nucleolar complex protein 2 homolog	0.87
29	IPI00556494	MED4 Mediator of RNA polymerase II transcription subunit 4	0.87
30	IPI00024871	CBFB Isoform 2 of Core-binding factor subunit beta	0.87
31	IPI00025807	SP3 Isoform 1 of Transcription factor Sp3	0.87
32	IPI00000051	PFDN1 Prefoldin subunit 1	0.88
33	IPI00438229	TRIM28 Isoform 1 of Transcription intermediary factor 1-beta	0.88
34	IPI00004353	GTF2A2 Transcription initiation factor IIA subunit 2	0.88
35	IPI00012202	WDR77 Methylosome protein 50	0.89
36	IPI00010088	HDAC4 Histone deacetylase 4	0.9
37	IPI00247871	TCERG1 Isoform 1 of Transcription elongation regulator 1	0.91
38	IPI00015361	PFDN5 Prefoldin subunit 5	0.91
39	IPI00759832	YWHAB Isoform Short of 14-3-3 protein beta/alpha	0.91
40	IPI00018840	TRIP4 Activating signal cointegrator 1	0.91
41	IPI00100791	GTF2H3 General transcription factor IIIH subunit 3	0.91
42	IPI00023919	PSMC5 26S protease regulatory subunit 8	0.92
43	IPI00010136	CTBP2 Isoform 2 of C-terminal-binding protein 2	0.93
44	IPI00002624	PLRG1 Isoform 1 of Pleiotropic regulator 1	0.94
45	IPI00302238	AATF Protein AATF	0.94
46	IPI00024802	BTAF1 TATA-binding protein-associated factor 172	0.94
47	IPI00032911	TBPL1 TATA box-binding protein-like protein 1	0.95
48	IPI00103554	GATAD2B Transcriptional repressor p66-beta	0.95
49	IPI00005511	PHF5A PHD finger-like domain-containing protein 5A	0.95
50	IPI00022477	BCL10 B-cell lymphoma/leukemia 10 PSMD9 Isoform p27-L of 26S proteasome non-ATPase regulatory	0.95
51	IPI00010860	subunit 9	0.96
52	IPI00011698	SAP18 histone deacetylase complex subunit SAP18	0.96
53	IPI00016839	GTF2H4 General transcription factor IIIH subunit 4	0.96
54	IPI00289601	HDAC2 Histone deacetylase 2	0.96
55	IPI00007311	MAFG Transcription factor MafG	0.97
56	IPI00549248	NPM1 Isoform 1 of Nucleophosmin	0.97
57	IPI00979341	AHCTF1P1;AHCTF1 Isoform 2 of Protein ELYS	0.97
58	IPI00010653	REXO4 Isoform 1 of RNA exonuclease 4	0.98

59	IPI00305068	PRPF6 Pre-mRNA-processing factor 6	0.98
60	IPI00946154	FGF2 Isoform 1 of Heparin-binding growth factor 2	0.98
61	IPI00020928	TFAM Transcription factor A, mitochondrial	0.99
62	IPI00619930	PUS1 Isoform 1 of tRNA pseudouridine synthase A, mitochondrial	1.01
63	IPI00022208	CEBPG CCAAT/enhancer-binding protein gamma ARL2BP Isoform 1 of ADP-ribosylation factor-like protein 2-binding	1.01
64	IPI00015866	protein	1.02
65	IPI00217540	KDM1A Isoform 2 of Lysine-specific histone demethylase 1A MED15 Isoform 1 of Mediator of RNA polymerase II transcription	1.02
66	IPI00107693	subunit 15	1.02
67	IPI00292537	NFKB1 Isoform 2 of Nuclear factor NF-kappa-B p105 subunit	1.02
68	IPI00295501	CNOT8 CCR4-NOT transcription complex subunit 8	1.02
69	IPI00216318	YWHAB Isoform Long of 14-3-3 protein beta/alpha	1.03
70	IPI00002993	TAF9 Transcription initiation factor TFIID subunit 9	1.04
71	IPI00012835	CTBP1 C-terminal-binding protein 1	1.04
72	IPI00029629	TRIM25 E3 ubiquitin/ISG15 ligase TRIM25	1.04
73	IPI00216746	HNRNPK Isoform 2 of Heterogeneous nuclear ribonucleoprotein K	1.05
74	IPI00063213	MED30 Mediator of RNA polymerase II transcription subunit 30	1.05
75	IPI00013174	RBM14;RBM14-RBM4 Isoform 1 of RNA-binding protein 14	1.06
76	IPI00640917	TBL1X Isoform 1 of F-box-like/WD repeat-containing protein TBL1X MAFK V-maf musculoaponeurotic fibrosarcoma oncogene homolog K	1.07
77	IPI00031018	(Fragment)	1.07
78	IPI00555833	MYEF2 Isoform 1 of Myelin expression factor 2	1.07
79	IPI00477494	DRAP1 Uncharacterized protein MED22 Isoform Surf5B of Mediator of RNA polymerase II transcription	1.08
80	IPI00018040	subunit 22 SMARCE1 Isoform 1 of SWI/SNF-related matrix-associated actin-	1.09
81	IPI00017669	dependent regulator of chromatin subfamily E member 1	1.09
82	IPI00030481	MED10 Mediator of RNA polymerase II transcription subunit 10	1.09
83	IPI00007256	ZHX2 Zinc fingers and homeoboxes protein 2	1.11
84	IPI00478128	GATAD2A Uncharacterized protein	1.11
85	IPI00513817	PMF1;PMF1-BGLAP Isoform 5 of Polyamine-modulated factor 1	1.11
86	IPI00013774	HDAC1 Histone deacetylase 1	1.12
87	IPI00027988	CTCF Transcriptional repressor CTCF	1.12
88	IPI00011461	STRN3 Isoform Beta of Striatin-3	1.12
89	IPI00025346	PEX14 Isoform 1 of Peroxisomal membrane protein PEX14	1.12
90	IPI00644671	CC2D1B Isoform 1 of Coiled-coil and C2 domain-containing protein 1B	1.12
91	IPI00152510	DDX54 Isoform 2 of ATP-dependent RNA helicase DDX54	1.13
92	IPI00234252	SMARCC1 SWI/SNF complex subunit SMARCC1	1.13
93	IPI00792423	MED24 Mediator of RNA polymerase II transcription subunit 24	1.13
94	IPI00017292	CTNNB1 Isoform 1 of Catenin beta-1 TAF6L TAF6-like RNA polymerase II p300/CBP-associated factor-	1.14
95	IPI00007957	associated factor 65 kDa subunit 6L	1.14
96	IPI00165357	MTA3 Isoform 1 of Metastasis-associated protein MTA3	1.14
97	IPI00293655	DDX1 ATP-dependent RNA helicase DDX1	1.14
98	IPI00218568	PCBD1 Pterin-4-alpha-carbinolamine dehydratase	1.15
99	IPI00465248	ENO1 Isoform alpha-enolase of Alpha-enolase	1.15
100	IPI00001364	GCFC1 Isoform A of GC-rich sequence DNA-binding factor 1	1.15
101	IPI00054042	GTF2I Isoform 1 of General transcription factor II-I	1.16
102	IPI00037599	TFCP2 Isoform 1 of Alpha-globin transcription factor CP2	1.18
103	IPI00140420	SND1 Staphylococcal nuclease domain-containing protein 1	1.19
104	IPI00643722	ARID1A Isoform 1 of AT-rich interactive domain-containing protein 1A	1.19
105	IPI00022215	ADNP Activity-dependent neuroprotector homeobox protein	1.19
106	IPI00017450	GTF2F1 General transcription factor IIF subunit 1	1.19
107	IPI00170596	SIN3A Paired amphipathic helix protein Sin3a CIQBP Complement component 1 Q subcomponent-binding protein,	1.2
108	IPI00014230	mitochondrial SMARCD1 Isoform 1 of SWI/SNF-related matrix-associated actin-	1.21
109	IPI00852816	dependent regulator of chromatin subfamily D member 1	1.21
110	IPI00017334	PHB Prohibitin	1.21
111	IPI00031812	YBX1 Nuclease-sensitive element-binding protein 1	1.22
112	IPI00171798	MTA2 Metastasis-associated protein MTA2	1.22
113	IPI00419258	HMGB1 High mobility group protein B1	1.22
114	IPI00216737	MINA Isoform 1 of MYC-induced nuclear antigen	1.22

115	IPI00024620	ENY2 Enhancer of yellow 2 transcription factor homolog	1.26
116	IPI00297113	TRIM32 E3 ubiquitin-protein ligase TRIM32	1.26
117	IPI00426640	GTF2H2;GTF2H2C;GTF2H2D General transcription factor IIH subunit 2	1.27
118	IPI00302647	CC2D1A Isoform 1 of Coiled-coil and C2 domain-containing protein 1A	1.29
119	IPI00003515	TRIP11 Thyroid receptor-interacting protein 11	1.33
120	IPI00184135	E4F1 Transcription factor E4F1	1.34
121	IPI00221222	SUB1 Activated RNA polymerase II transcriptional coactivator p15	1.38
122	IPI00639957	CARM1 Isoform 3 of Histone-arginine methyltransferase CARM1	1.39
123	IPI00647008	BRD7 Isoform 2 of Bromodomain-containing protein 7	1.39
124	IPI00784414	STAT3 Isoform 1 of Signal transducer and activator of transcription 3	1.39
125	IPI00845373	NFKB2 Isoform 1 of Nuclear factor NF-kappa-B p100 subunit	1.4
126	IPI00104050	THRAP3 Thyroid hormone receptor-associated protein 3 TRRAP Isoform 1 of Transformation/transcription domain-associated protein	1.4 1.45
127	IPI00069084		
128	IPI00018924	HMG20A Isoform 1 of High mobility group protein 20A	1.45
129	IPI00807545	HNRNPK Isoform 3 of Heterogeneous nuclear ribonucleoprotein K PBXIP1 Isoform 1 of Pre-B-cell leukemia transcription factor-interacting protein 1	1.46 1.46
130	IPI00332106		
131	IPI00002895	SUPT4H1 Transcription elongation factor SPT4	1.47
132	IPI00419894	CUX1 Isoform 3 of Homeobox protein cut-like 1	1.48
133	IPI00218326	SP100 Isoform Sp100-C of Nuclear autoantigen Sp-100	1.48
134	IPI00022019	SAP30 Histone deacetylase complex subunit SAP30	1.49
135	IPI00010414	PDLIM1 PDZ and LIM domain protein 1	1.49
136	IPI00300278	MED8 Isoform 2 of Mediator of RNA polymerase II transcription subunit	1.5
137	IPI00021570	EDF1 Isoform 1 of Endothelial differentiation-related factor 1	1.52
138	IPI00019226	BRD8 Isoform 1 of Bromodomain-containing protein 8 MED16 Isoform 1 of Mediator of RNA polymerase II transcription subunit 16	1.54 1.55
139	IPI00037401		
140	IPI00784161	SUPT6H Isoform 1 of Transcription elongation factor SPT6 SMARCA2 Isoform Long of Probable global transcription activator	1.56 1.56
141	IPI00514648	SNF2L2	1.56
142	IPI00219097	HMGB2 High mobility group protein B2	1.57
143	IPI00386120	SF1 Isoform 6 of Splicing factor 1	1.6
144	IPI00852960	USP22 Isoform 1 of Ubiquitin carboxyl-terminal hydrolase 22	1.61
145	IPI00018398	PSMC3 26S protease regulatory subunit 6A	1.63
146	IPI00289773	CEBPB CCAAT/enhancer-binding protein beta	1.63
147	IPI00829826	MED1 Isoform 1 of Mediator of RNA polymerase II transcription subunit	1.67
148	IPI00025815	TARDBP Isoform 2 of TAR DNA-binding protein 43	1.68
149	IPI00477619	C19orf2 Isoform 1 of Unconventional prefoldin RPB5 interactor	1.68
150	IPI00045051	PURB Transcriptional activator protein Pur-beta	1.68
151	IPI00871174	MYCBP C-Myc-binding protein	1.68
152	IPI00013830	SNW1 SNW domain-containing protein 1	1.69
153	IPI00004344	AFF4 Isoform 1 of AF4/FMR2 family member 4	1.69
154	IPI00008531	RCOR1 REST corepressor 1	1.71
155	IPI00008991	DR1 Protein Dr1	1.72
156	IPI00031801	CSDA Isoform 1 of DNA-binding protein A	1.72
157	IPI00215911	APEX1 DNA-(apurinic or apyrimidinic site) lyase	1.76
158	IPI00012773	MTA1 Isoform Long of Metastasis-associated protein MTA1	1.76
159	IPI00844193	ZNF593 Zinc finger protein 593	1.76
160	IPI00028122	PSIP1 Isoform 1 of PC4 and SFRS1-interacting protein	1.78
161	IPI00412672	PKN1 Isoform 2 of Serine/threonine-protein kinase N1	1.79
162	IPI00216919	YAP1 Isoform 1 of Yorkie homolog MED17 Isoform 1 of Mediator of RNA polymerase II transcription subunit 17	1.79 1.82
163	IPI00301139		
164	IPI00020956	HDGF Hepatoma-derived growth factor	1.83
165	IPI00165434	YLPM1 Isoform 4 of YLP motif-containing protein 1	1.86
166	IPI00847689	HTATIP2 Isoform 3 of Oxidoreductase HTATIP2	1.9
167	IPI00792837	ZNF207 zinc finger protein 207 isoform c	1.91
168	IPI00003627	ACTL6A Isoform 1 of Actin-like protein 6A	1.94
169	IPI00154451	MMS19 cDNA FLJ55586, highly similar to MMS19-like protein	1.94
170	IPI00328715	MTDH Protein LYRIC ZMYND8 cDNA FLJ55380, highly similar to Protein kinase C-binding protein 1	1.97 1.98
171	IPI00418316		
172	IPI00099497	MAFF Transcription factor Maff	2.03

173	IPI00003369	LIMD1 LIM domain-containing protein 1	2.03
174	IPI00034069	TFB2M Dimethyladenosine transferase 2, mitochondrial	2.06
175	IPI00386448	RELA Isoform 1 of Transcription factor p65 MSRB2 Similar to Methionine-R-sulfoxide reductase B2, mitochondrial	2.07
176	IPI00032871	precursor	2.11
177	IPI00305304	CERS2 Ceramide synthase 2	2.13
178	IPI00014513	YY1 Transcriptional repressor protein YY1	2.16
179	IPI00000685	CDK7 Cyclin-dependent kinase 7	2.16
180	IPI00556645	FOXK1 Isoform 1 of Forkhead box protein K1	2.2
181	IPI00012450	NMI N-myc-interactor	2.27
182	IPI00024071	HSF1 Isoform Long of Heat shock factor protein 1 MED18 cDNA FLJ51219, highly similar to Homo sapiens mediator of	2.34
183	IPI00305986	RNA polymerase II transcription, subunit 18 homolog (MED18), mRNA	2.39
184	IPI00742743	TP53BP1 Isoform 2 of Tumor suppressor p53-binding protein 1	2.46
185	IPI00013439	JUNB Transcription factor jun-B	2.8
186	IPI00554711	JUP Junction plakoglobin	2.84
187	IPI00025792	SUPT3H Isoform 1 of Transcription initiation protein SPT3 homolog STAT1 Isoform Alpha of Signal transducer and activator of transcription	2.86
188	IPI00030781	1-alpha/beta	3.05
189	IPI00217357	CCAR1 Isoform 1 of Cell division cycle and apoptosis regulator protein 1	3.08
190	IPI00005181	PLSCR1 Phospholipid scramblase 1	3.22
191	IPI00218260	NFIX Nuclear factor 1	4.06
192	IPI00024698	PQBP1 Isoform 1 of Polyglutamine-binding protein 1	4.11
193	IPI00022348	PML Isoform PML-1 of Protein PML	4.24
194	IPI00023591	PURA Transcriptional activator protein Pur-alpha	4.41
195	IPI00645192	MECP2 Mutant methyl CpG binding protein 2 variant 1	4.64
196	IPI00005223	SMAD9 Isoform A of Mothers against decapentaplegic homolog 9	4.71
197	IPI00011590	FOSL1 Fos-related antigen 1	6.33
198	IPI00439948	PPP1R13L Isoform 1 of RelA-associated inhibitor	6.84
199	IPI00299024	BASP1 Isoform 1 of Brain acid soluble protein 1	7.03
200	IPI00016802	SIRT1 NAD-dependent deacetylase sirtuin-1	7.27
201	IPI00909569	HDAC7 Isoform 8 of Histone deacetylase 7	9.65