

Supplemental Table 4. Proteins identified from MCF10/CIITA/CD80 and MCF10/CIITA/CD80/siRNA as a result of two individual affinity purifications and four LC-MS/MS runs. Proteins unique to MCF10/CIITA/CD80/siRNA are in **red**; proteins unique to MCF10/CIITA/CD80 are in **blue**; proteins present in both cell lines are in black. Percent of protein coverage and number of unique peptides per protein are from Protein Prophet analysis. Spectra of proteins identified by a single peptide are in Supplemental figure 3.

Protein Name	IPI accession number	Peptides per protein	% Protein coverage
ATP synthase subunit beta, mitochondrial precursor	IPI00303476.1, IPI00789157.1, IPI00790385.1, IPI00792128.1, IPI00792534.1	1	4
Heat shock protein beta 1	IPI00025512.2	1	15.1
40S ribosomal protein S11	IPI00025091.3	1	9.5
40S ribosomal protein S13	IPI00221089.5	1	6.6
40S ribosomal protein S15	IPI00216153.7, IPI00479058.1	2	35.2
40S ribosomal protein S19	IPI00215780.5, IPI00787105.1	1	8.3
40S ribosomal protein S2	IPI00013485.3, IPI00478002.1, IPI00479366.1, IPI00744451.3, IPI00827598.1	1	6.1
40S ribosomal protein S25	IPI00012750.3, IPI00401105.1, IPI00740757.1	1	20.8
40S ribosomal protein S5	IPI00008433.4, IPI00479705.2	1	5.9
40S ribosomal protein S7	IPI00013415.1, IPI00478287.2	2	18
49 kDa protein	IPI00554788.4, IPI00737922.1, IPI00784347.2, IPI00795353.1	6	11.4
60S ribosomal protein L7a	IPI00299573.12, IPI00397676.4, IPI00478896.2, IPI00479315.2	1	6
7 kDa protein	IPI00746213.1	1	25
85 kDa protein	IPI00334775.6, IPI00414676.6, IPI00555614.1	1	2.4
Actin, alpha skeletal muscle	IPI00021428.1, IPI00021439.1, IPI00021440.1, IPI00023006.1, IPI00414057.2, IPI00515047.1, IPI00555900.1, IPI00738655.2, IPI00739539.2, IPI00740545.1, IPI00748022.1, IPI00786945.1, IPI00790339.1, IPI00796881.1	1	3.7
Actin, aortic smooth muscle	IPI00008603.1, IPI00021428.1, IPI00021439.1, IPI00021440.1, IPI00023006.1, IPI00025416.3, IPI00414057.2, IPI00514530.4, IPI00555733.1, IPI00555900.1, IPI00556212.1, IPI00645534.1, IPI00655798.3, IPI00736769.2, IPI00738655.2, IPI00740545.1, IPI00748022.1,	6	19.6

Actin, cytoplasmic 1	IPI00021439.1, IPI00021440.1, IPI00555733.1, IPI00556391.1, IPI00655798.3, IPI00739539.2, IPI00790339.1, IPI00796881.1	9	30.7
Alpha enolase, lung specific	IPI00013769.1, IPI00216171.3, IPI00218474.5, IPI00465248.5, IPI00759806.1, IPI00792715.1	1	3.9
ATP synthase epsilon chain, mitochondrial	IPI00215878.6	1	41.2
ATP synthase O subunit, mitochondrial precursor	IPI00007611.1, IPI00789135.1	1	9.4
ATP synthase subunit alpha, mitochondrial precursor	IPI00440493.2, IPI00471928.5, IPI00549805.3, IPI00641249.2, IPI00793125.1, IPI00795295.1, IPI00795947.1, IPI00797044.1	1	4.5
ATP synthase subunit beta, mitochondrial precursor	IPI00303476.1, IPI00792128.1, IPI00792534.1, IPI00793851.1	2	6.8
Beta isoform of regulatory subunit B55, protein phosphatase 2 isoform d	IPI00376974.1	1	3
Brain specific angiogenesis inhibitor 3 precursor	IPI00028448.1	1	1.7
Calpastatin isoform e	IPI00760715.1, IPI00761035.1, IPI00761069.1, IPI00761140.1, IPI00761160.1	1	3
CDNA FLJ39107 fis, clone NTONG2005062	IPI00166203.1	1	11.1
Cytochrome c oxidase polypeptide VIa liver, mitochondrial precursor	IPI00021793.1, IPI00176681.1	1	11.9
Cytochrome c type heme lyase	IPI00023406.1	1	5.2
E2 induced gene 5 protein	IPI00023001.2	1	9.7
EEF1A1 protein	IPI00025447.7, IPI00396485.3, IPI00472724.1, IPI00793363.1	3	13.3
Elongation factor 1 alpha 2	IPI00014424.1, IPI00396485.3, IPI00431701.2, IPI00472724.1, IPI00641459.2, IPI00793363.1, IPI00796933.1	1	3.7
ENO1P protein	IPI00328587.4, IPI00465248.5, IPI00759806.1	1	2.3
Gelsolin precursor	IPI00026314.1, IPI00513782.3, IPI00646773.2	1	4.2
Heat shock protein beta 1	IPI00025512.2	1	15.1
Heat shock protein HSP 90 alpha 2	IPI00382470.3, IPI00604607.2, IPI00784295.2, IPI00789847.1	1	2.1
Histone H2B type 2 E	IPI00440493.2, IPI00471928.5, IPI00549805.3, IPI00641249.2, IPI00793125.1, IPI00795295.1, IPI00795947.1, IPI00797044.1	1	12
HLA class II histocompatibility antigen, DR alpha chain precursor	IPI00005171.1, IPI00464948.3, IPI00719648.1, IPI00785143.1	1	5.9

Hypothetical protein	IPI00176527.1	1	41.2
hypothetical protein LOC81610	IPI00480103.3	1	3.9
Interleukin 20 precursor	IPI00000048.2	1	10.8
Isoform 1 of Gelsolin precursor	IPI00026314.1, IPI00513782.3, IPI00646773.2	3	7.7
Isoform 1 of L lactate dehydrogenase A chain	IPI00217966.7, IPI00607708.3, IPI00789874.1, IPI00792016.1, IPI00792520.1, IPI00793152.1, IPI00795075.1	2	6.3
Isoform 1 of Nucleophosmin	IPI00549248.4, IPI00604504.1, IPI00658013.1	1	1.4
Isoform 1 of Serine\threonine protein kinase MARK1	IPI00185037.9, IPI00292809.6, IPI00555711.1, IPI00796181.1	1	2.4
Isoform alpha enolase of Alpha enolase	IPI00465248.5, IPI00759806.1	2	8.8
Isoform Long of HLA class II histocompatibility antigen gamma chain	IPI00022933.2, IPI00217775.1, IPI00607573.1	1	4.7
Isoform Non brain of Clathrin light chain A	IPI00216393.1	1	9.6
Isoform Non muscle of Myosin light polypeptide 6	IPI00335168.9, IPI00413922.5, IPI00744444.1, IPI00789605.1, IPI00793089.1, IPI00795576.1, IPI00795944.1, IPI00796366.1, IPI00796500.1, IPI00797001.1, IPI00797626.1, IPI00798265.1	2	15.9
Keratin, type II cytoskeletal 8	IPI00554648.3	1	3.1
Lon protease homolog, mitochondrial precursor	IPI00005158.1, IPI00334291.7	1	1.6
Methionine R sulfoxide reductase	IPI00021576.4, IPI00797026.1	1	11.3
Mitochondrial proteolipid	IPI00009247.2, IPI00749237.1	1	18.7
Myosin 9	IPI00019502.3, IPI00020501.1, IPI00024870.1, IPI00029818.4, IPI00337335.5, IPI00395772.4, IPI00397526.2, IPI00479307.3, IPI00607760.1, IPI00607778.1, IPI00607818.1, IPI00743857.1, IPI00744256.1, IPI00746736.1, IPI00790503.2, IPI00791256.1	24	19.4
Myosin light polypeptide 6B	IPI00027255.1, IPI00335168.9, IPI00744444.1, IPI00789605.1, IPI00796366.1, IPI00797001.1, IPI00798146.1	1	7.2
Myosin regulatory light chain	IPI00033494.3, IPI00220278.5, IPI00220573.4, IPI00604523.1, IPI00642780.2	2	15.1
myosin regulatory light chain 9 isoform b	IPI00030929.4, IPI00033494.3, IPI00220278.5, IPI00220573.4, IPI00604523.1, IPI00719669.2	3	22
Neuroblast differentiation associated	IPI00021812.1, IPI00555610.3	1	0.8

protein AHNAK (Fragment)			
Non muscle of Myosin light polypeptide 6	IPI00335168.9, IPI00413922.5, IPI00744444.1, IPI00789605.1, IPI00793089.1, IPI00795576.1, IPI00795944.1, IPI00796366.1, IPI00796500.1, IPI00797001.1, IPI00797626.1, IPI00798265.1	1	12.6
Nucleophosmin	IPI00220740.1, IPI00549248.4, IPI00658013.1	1	6.4
Polyadenylate binding protein interacting protein 2	IPI00304483.1	1	13.4
PQ loop repeat containing 2 isoform 1	IPI00643251.2, IPI00748068.1, IPI00827572.1	1	6.9
Protocadherin 11 X linked precursor	IPI00005031.1, IPI00018303.2, IPI00018313.1, IPI00018320.1, IPI00104649.1, IPI00218387.1, IPI00410049.2, IPI00514303.1, IPI00514457.3, IPI00643227.1, IPI00745536.1, IPI00747762.1	1	1.8
RING finger and transmembrane domain-containing protein 2 isoform 2	IPI00797961; IPI00877637; IPI00878447;	1	5.6
Similar to Myosin light polypeptide 6 similar to myosin regulatory light chain like	IPI00101961.1, IPI00335168.9, IPI00744444.1, IPI00789605.1, IPI00796366.1, IPI00797001.1, IPI00798146.1	1	6.6
T complex protein 1 subunit beta	IPI00455715.2, IPI00740621.1	5	19
Thymosin beta 10	IPI00297779.7, IPI00796761.1	1	4.3
Thymosin like 3	IPI00220827.5	3	52.3
Tropomodulin 1	IPI00180240.2, IPI00220828.9, IPI00719405.2, IPI00815642.1, IPI00815829.1, IPI00815835.1, IPI00816008.1, IPI00816288.1, IPI00816464.1	2	61.4
TUBA6 protein	IPI00166768.2, IPI00179709.4, IPI00180675.4, IPI00218343.4, IPI00218345.4, IPI00387144.4, IPI00410402.2, IPI00478908.3, IPI00552356.1, IPI00743604.1, IPI00792677.1, IPI00793930.1, IPI00795002.1	1	5.2