

**Supplemental Data 2. GO terms and KEGG pathways for up-regulated proteins in CLDN6-1 cells**

GO:0098609~cell-cell adhesion

UniProt Accession Number	Gene Names	Protein Names	Abundances		Standard Error	
			CTRL	CLDN6-1	CTRL	CLDN6-1
Q14134	TRIM29	Tripartite motif-containing protein 29	3.60.E+08	5.71.E+08	3.53.E+06	1.10.E+07
Q01970	PLCB3	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-3	9.53.E+06	1.55.E+07	4.25.E+05	6.91.E+05
Q9H6S3	EPS8L2	epidermal growth factor receptor kinase substrate 8-like protein 2	1.13.E+08	1.86.E+08	7.20.E+06	2.02.E+06
O14618	CCS	copper chaperone for superoxide dismutase	7.91.E+08	1.47.E+09	1.72.E+07	1.38.E+07
Q16643	DBN1	drebrin	7.09.E+06	1.26.E+07	4.00.E+05	1.23.E+05
Q9C0C2	TNKS1BP1	182 kDa tankyrase-1-binding protein	4.28.E+06	6.81.E+06	2.12.E+05	1.86.E+05
Q8NFI5	GPRC5A	Retinoic acid-induced protein 3	3.03.E+07	1.41.E+08	1.26.E+06	4.09.E+06
O00515	LAD1	Ladinin-1	5.31.E+07	8.07.E+07	1.94.E+06	4.73.E+05
P40121	CAPG	Macrophage-capping protein	2.24.E+08	3.72.E+08	9.64.E+05	4.52.E+06
Q15417	CNN3	Calponin-3	2.72.E+08	5.22.E+08	5.68.E+06	2.28.E+07
Q32MZ4	LRRFIP1	Isoform 3 of Leucine-rich repeat flightless-interacting protein 1	1.50.E+08	2.73.E+08	4.37.E+06	1.03.E+07
P50552	VASP	Vasodilator-stimulated phosphoprotein	2.85.E+08	5.52.E+08	7.62.E+06	1.66.E+07
O43795	MYO1B	Unconventional myosin-Ib	3.32.E+07	8.79.E+07	1.84.E+06	5.70.E+06
Q9NQC3	RTN4	Isoform 2 of Reticulon-4	6.07.E+08	9.82.E+08	2.03.E+07	3.00.E+07
Q14847	LASP1	LIM and SH3 domain protein 1	2.72.E+08	5.75.E+08	1.86.E+07	2.53.E+06

GO:0005913~cell-cell adherens junction

UniProt Accession Number	Gene Names	Protein Names	Abundances		Standard Error	
			CTRL	CLDN6-1	CTRL	CLDN6-1
Q14134	TRIM29	Tripartite motif-containing protein 29	3.60.E+08	5.71.E+08	3.53.E+06	1.10.E+07
P21333	FLNA	Filamin-A	1.07.E+10	1.75.E+10	2.71.E+07	6.72.E+07
Q9H6S3	EPS8L2	epidermal growth factor receptor kinase substrate 8-like protein 2	1.13.E+08	1.86.E+08	7.20.E+06	2.02.E+06
Q01970	PLCB3	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-3	9.53.E+06	1.55.E+07	4.25.E+05	6.91.E+05
O14618	CCS	copper chaperone for superoxide dismutase	7.91.E+08	1.47.E+09	1.72.E+07	1.38.E+07
Q16643	DBN1	drebrin	7.09.E+06	1.26.E+07	4.00.E+05	1.23.E+05
Q9C0C2	TNKS1BP1	182 kDa tankyrase-1-binding protein	4.28.E+06	6.81.E+06	2.12.E+05	1.86.E+05
Q8NFI5	GPRC5A	Retinoic acid-induced protein 3	3.03.E+07	1.41.E+08	1.26.E+06	4.09.E+06
O00515	LAD1	Ladinin-1	5.31.E+07	8.07.E+07	1.94.E+06	4.73.E+05
P40121	CAPG	Macrophage-capping protein	2.24.E+08	3.72.E+08	9.64.E+05	4.52.E+06
Q15417	CNN3	Calponin-3	2.72.E+08	5.22.E+08	5.68.E+06	2.28.E+07
Q32MZ4	LRRFIP1	Isoform 3 of Leucine-rich repeat flightless-interacting protein 1	1.50.E+08	2.73.E+08	4.37.E+06	1.03.E+07
P50552	VASP	Vasodilator-stimulated phosphoprotein	2.85.E+08	5.52.E+08	7.62.E+06	1.66.E+07

P15151	PVR	Poliovirus receptor	7.02.E+07	1.11.E+08	6.70.E+05	6.72.E+05
O43795	MYO1B	Unconventional myosin-Ib	3.32.E+07	8.79.E+07	1.84.E+06	5.70.E+06
Q9NQC3	RTN4	Isoform 2 of Reticulon-4	6.07.E+08	9.82.E+08	2.03.E+07	3.00.E+07
P23229	ITGA6	integrin alpha-6	5.60.E+07	1.75.E+08	2.93.E+06	8.91.E+06
Q14847	LASP1	LIM and SH3 domain protein 1	2.72.E+08	5.75.E+08	1.86.E+07	2.53.E+06

GO:0005925~focal adhesion

UniProt Accession Number	Gene Names	Protein Names	Abundances		Standard Error	
			CTRL	CLDN6-1	CTRL	CLDN6-1
P21333	FLNA	Filamin-A	1.07.E+10	1.75.E+10	2.71.E+07	6.72.E+07
P07384	CAPN1	Calpain-1 catalytic subunit	7.50.E+08	1.21.E+09	1.36.E+07	1.71.E+07
Q13443	ADAM9	disintegrin and metalloproteinase domain-containing protein 9	1.19.E+06	3.03.E+06	8.34.E+04	1.22.E+05
P24821	TNC	Tenascin	1.01.E+06	8.97.E+06	2.46.E+05	9.68.E+05
Q15417	CNN3	Calponin-3	2.72.E+08	5.22.E+08	5.68.E+06	2.28.E+07
P50552	VASP	Vasodilator-stimulated phosphoprotein	2.85.E+08	5.52.E+08	7.62.E+06	1.66.E+07
P15151	PVR	Poliovirus receptor	7.02.E+07	1.11.E+08	6.70.E+05	6.72.E+05
Q04725	TLE2	Transducin-like enhancer protein 2	1.92.E+06	3.19.E+06	8.84.E+04	1.42.E+05
P29966	MARCKS	Myristoylated alanine-rich C-kinase substrate	8.23.E+07	2.28.E+08	4.86.E+06	3.20.E+06
Q9NR12	PDLIM7	PDZ and LIM domain protein 7	2.75.E+07	7.05.E+07	1.56.E+06	2.66.E+06
Q96B97	SH3KBP1	SH3 domain-containing kinase-binding protein 1	9.70.E+06	2.17.E+07	4.02.E+05	7.50.E+05
P62330	ARF6	ADP-ribosylation factor 6	3.12.E+07	7.05.E+07	1.27.E+06	6.56.E+06
P67936	TPM4	Tropomyosin alpha-4 chain	9.99.E+08	1.50.E+09	3.65.E+07	5.70.E+06
P23229	ITGA6	integrin alpha-6	5.60.E+07	1.75.E+08	2.93.E+06	8.91.E+06
Q14847	LASP1	LIM and SH3 domain protein 1	2.72.E+08	5.75.E+08	1.86.E+07	2.53.E+06
P16070	CD44	CD44 antigen	6.27.E+08	1.11.E+09	1.75.E+07	6.60.E+06
P35658	NUP214	Nuclear pore complex protein Nup214	6.73.E+06	1.25.E+07	5.79.E+05	4.68.E+05

GO:0098641~cadherin binding involved in cell-cell adhesion

UniProt Accession Number	Gene Names	Protein Names	Abundances		Standard Error	
			CTRL	CLDN6-1	CTRL	CLDN6-1
Q14134	TRIM29	Tripartite motif-containing protein 29	3.60.E+08	5.71.E+08	3.53.E+06	1.10.E+07
P21333	FLNA	Filamin-A	1.07.E+10	1.75.E+10	2.71.E+07	6.72.E+07
Q9H6S3	EPS8L2	epidermal growth factor receptor kinase substrate 8-like protein 2	1.13.E+08	1.86.E+08	7.20.E+06	2.02.E+06
Q01970	PLCB3	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-3	9.53.E+06	1.55.E+07	4.25.E+05	6.91.E+05
O14618	CCS	copper chaperone for superoxide dismutase	7.91.E+08	1.47.E+09	1.72.E+07	1.38.E+07
Q16643	DBN1	drebrin	7.09.E+06	1.26.E+07	4.00.E+05	1.23.E+05
Q9C0C2	TNKS1BP1	182 kDa tankyrase-1-binding protein	4.28.E+06	6.81.E+06	2.12.E+05	1.86.E+05

Q8NFJ5	GPRC5A	Retinoic acid-induced protein 3	3.03.E+07	1.41.E+08	1.26.E+06	4.09.E+06
O00515	LAD1	Ladinin-1	5.31.E+07	8.07.E+07	1.94.E+06	4.73.E+05
P40121	CAPG	Macrophage-capping protein	2.24.E+08	3.72.E+08	9.64.E+05	4.52.E+06
Q15417	CNN3	Calponin-3	2.72.E+08	5.22.E+08	5.68.E+06	2.28.E+07
Q32MZ4	LRRFIP1	Isoform 3 of Leucine-rich repeat flightless-interacting protein 1	1.50.E+08	2.73.E+08	4.37.E+06	1.03.E+07
P50552	VASP	Vasodilator-stimulated phosphoprotein	2.85.E+08	5.52.E+08	7.62.E+06	1.66.E+07
O43795	MYO1B	Unconventional myosin-Ib	3.32.E+07	8.79.E+07	1.84.E+06	5.70.E+06
Q9NQC3	RTN4	Isoform 2 of Reticulon-4	6.07.E+08	9.82.E+08	2.03.E+07	3.00.E+07
P23229	ITGA6	integrin alpha-6	5.60.E+07	1.75.E+08	2.93.E+06	8.91.E+06
Q14847	LASP1	LIM and SH3 domain protein 1	2.72.E+08	5.75.E+08	1.86.E+07	2.53.E+06

hsa04510~Focal adhesion

UniProt Accession Number	Gene Names	Protein Names	Abundances		Standard Error	
			CTRL	CLDN6-1	CTRL	CLDN6-1
Q13753	LAMC2	Laminin subunit gamma-2	1.52.E+07	2.54.E+07	2.86.E+06	8.95.E+05
P24821	TNC	Tenascin	1.01.E+06	8.97.E+06	2.46.E+05	9.68.E+05
P50552	VASP	Vasodilator-stimulated phosphoprotein	2.85.E+08	5.52.E+08	7.62.E+06	1.66.E+07
Q13751	LAMB3	Laminin subunit beta-3	1.57.E+07	2.52.E+07	7.14.E+05	2.29.E+05
P31751	AKT2	RAC-beta serine/threonine-protein kinase	2.73.E+06	4.33.E+06	3.28.E+05	2.62.E+05
P21333	FLNA	Filamin-A	1.07.E+10	1.75.E+10	2.71.E+07	6.72.E+07
P16144	ITGB4	Integrin beta-4	1.23.E+08	2.43.E+08	1.19.E+07	5.49.E+06
Q9NRY4	ARHGAP35	Rho GTPase-activating protein 35	3.15.E+06	4.81.E+06	2.76.E+05	2.41.E+05
P23229	ITGA6	integrin alpha-6	5.60.E+07	1.75.E+08	2.93.E+06	8.91.E+06

hsa04512~ECM-receptor interaction

UniProt Accession Number	Gene Names	Protein Names	Abundances		Standard Error	
			CTRL	CLDN6-1	CTRL	CLDN6-1
Q13753	LAMC2	Laminin subunit gamma-2	1.52.E+07	2.54.E+07	2.86.E+06	8.95.E+05
P24821	TNC	Tenascin	1.01.E+06	8.97.E+06	2.46.E+05	9.68.E+05
Q13751	LAMB3	Laminin subunit beta-3	1.57.E+07	2.52.E+07	7.14.E+05	2.29.E+05
P16144	ITGB4	Integrin beta-4	1.23.E+08	2.43.E+08	1.19.E+07	5.49.E+06
P23229	ITGA6	integrin alpha-6	5.60.E+07	1.75.E+08	2.93.E+06	8.91.E+06
P16070	CD44	CD44 antigen	6.27.E+08	1.11.E+09	1.75.E+07	6.60.E+06