

**Table 1. Quantitative proteomic analysis following CYT-387 affinity enrichment, showing differentially expressed kinases in cultured *Cish*<sup>-/-</sup> NK cells, related to Figure 4.**

Accession Number	Gene Name	Protein Name	Log2 Ratio KO/WT	P-Value KO/WT	Significance KO/WT
E9QL53	<b>Cit</b>	Citron Rho-interacting kinase	2.82	9.50E-35	++
Q02111	<b>Prkcq</b>	Protein kinase C theta type	2.72	3.03E-03	++
Q8K1M3	<b>Prkar2a</b>	cAMP-dependent protein kinase type II-alpha regulatory subunit	2.70	2.52E-04	++
Q8BP87	<b>Aurka</b>	Aurora kinase A	2.59	2.69E-03	++
Q99JW7	<b>Cdk1</b>	Cyclin-dependent kinase 1	2.39	1.30E-06	++
B1AVU1	<b>Prkx</b>	cAMP-dependent protein kinase catalytic subunit PRKX	2.22	3.49E-02	+
A6P3E4	<b>Mapk8</b>	Mitogen-activated protein kinase 8	2.06	5.71E-06	++
Q8K0D0	<b>Cdk17</b>	Cyclin-dependent kinase 17	2.01	6.07E-06	+
Q91ZR8	<b>Tgfb2</b>	TGF-beta receptor type-2	1.77	5.48E-05	+
Q3U6X7	<b>Cdk2</b>	Cyclin-dependent kinase 2	1.60	4.19E-07	+
Q545E8	<b>Dck</b>	Deoxycytidine kinase	1.57	1.76E-09	+
Q3TA53	<b>Limk1</b>	LIM domain kinase 1	1.44	2.25E-02	+
P53349	<b>Map3k1</b>	Mitogen-activated protein kinase kinase kinase 1	1.42	1.04E-04	+
Q3URU8	<b>Jak1</b>	Tyrosine-protein kinase JAK1	1.30	1.03E-14	+
Q5D0E0	<b>Ikbkb</b>	Inhibitor of nuclear factor kappa-B kinase subunit beta	1.21	8.27E-07	+
Q3TUQ7	<b>Prkaa1</b>	5-AMP-activated protein kinase catalytic subunit alpha-1	1.15	1.91E-03	+

**Table 2. Quantitative proteomic analysis showing differentially expressed proteins in cultured *Cish*<sup>-/-</sup> NK cells, related to Extended Data Fig. 5.**

Accession Number	Gene Name	Protein Name	Log2 Ratio KO/WT	P-Value KO/WT	Significance KO/WT
Q5M9M0	<b>Rpl13a</b>	60S ribosomal protein L13a	4.62	3.05E-02	++
Q3THV8	<b>Rrm2</b>	Ribonucleoside-diphosphate reductase subunit M2	3.77	1.46E-03	++
P49718	<b>Mcm5</b>	DNA replication licensing factor MCM5	3.13	5.62E-07	++
Q64737	<b>Gart</b>	Trifunctional purine biosynthetic protein adenosine-3	2.38	2.52E-05	++
Q61656	<b>Ddx5</b>	Probable ATP-dependent RNA helicase DDX5	2.27	4.77E-04	++
Q9DAV6	<b>Serpib9b</b>	Serine (Or cysteine) peptidase inhibitor, clade B, member 9b	2.23	4.45E-03	++
Q61769	<b>Mki67</b>	Protein Mki67	2.22	7.22E-06	++
Q62351	<b>Tfrc</b>	Transferrin receptor protein 1	2.09	7.83E-04	++
Q99JW7	<b>Cdk1</b>	Cyclin-dependent kinase 1	2.04	1.62E-04	+
Q8R055	<b>Lig1</b>	DNA ligase; DNA ligase 1	1.94	2.01E-05	+
Q6ZQ58	<b>Larp1</b>	La-related protein 1	1.81	2.22E-02	+
Q3UPJ2	<b>Impdh2</b>	Inosine-5-monophosphate dehydrogenase	1.78	3.43E-07	+
P97310	<b>Mcm2</b>	DNA replication licensing factor MCM2	1.74	1.26E-05	+
Q05DU8	<b>Rrm1</b>	Ribonucleoside-diphosphate reductase	1.74	1.51E-02	+
Q9JJ44	<b>Dut</b>	Deoxyuridine triphosphatase	1.73	7.83E-04	+
B1AU76	<b>Nasp</b>	Nuclear autoantigenic sperm protein	1.71	9.46E-05	+
Q8K2Z4	<b>Ncapd2</b>	Condensin complex subunit 1	1.64	4.28E-05	+
Q3TFD0	<b>Shmt2</b>	Serine hydroxymethyltransferase	1.63	1.13E-04	+
Q8R180	<b>Ero1l</b>	ERO1-like protein alpha	1.59	6.43E-03	+
Q921D5	<b>Mcm4</b>	DNA replication licensing factor MCM4	1.33	1.23E-06	+

Q9WUM3	<b>Coro1b</b>	Coronin-1B; Coronin	-5.37	1.38E-02	--
Q9JHK5	<b>Plek</b>	Pleckstrin	-2.67	8.31E-03	--
Q99JI6	<b>Rap1b</b>	Ras-related protein Rap-1b	-2.60	3.14E-02	--
Q9D051	<b>Pdhb</b>	Pyruvate dehydrogenase E1 component subunit beta, mitochondrial	-2.53	1.24E-04	--
Q9D8C4	<b>Ifi35</b>	Interferon-induced 35 kDa protein homolog	-2.50	9.33E-03	--
Q9CVL7	<b>Dek</b>	Protein DEK	-2.49	2.71E-02	--
Q3U9B7	<b>Ctsc</b>	Dipeptidyl peptidase 1	-2.21	1.93E-02	-
Q3UE51	<b>Hk1</b>	Hexokinase-1	-2.15	3.09E-03	--
Q8BMF4	<b>Dlat</b>	Dihydrolipoyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex, mitochondrial	-2.06	4.95E-03	-
Q8BTS3	<b>Gbp9</b>	Guanylate-binding protein 9	-1.94	1.83E-02	-
Q9D2D1	<b>Ctsa</b>	Lysosomal protective protein	-1.77	1.09E-04	-
P10649	<b>Gstm1</b>	Glutathione S-transferase Mu 1	-1.74	1.83E-02	-
P62806	<b>Hist1h4a</b>	Histone H4	-1.70	2.41E-03	-
A1L0U3	<b>Hist1h3e</b>	Histone H3	-1.66	1.83E-02	-
Q6WVG3	<b>Kctd12</b>	BTB/POZ domain-containing protein KCTD12	-1.63	1.38E-02	-
D3YWR7	<b>Qdpr</b>	Dihydropteridine reductase	-1.62	1.67E-03	-
Q9DBN7	<b>Eci1</b>	Enoyl-CoA delta isomerase 1, mitochondrial	-1.59	4.77E-04	-
Q8BWT1	<b>Acaa2</b>	3-ketoacyl-CoA thiolase, mitochondrial	-1.58	2.72E-03	-
Q9DCC5	<b>Cbx3</b>	Chromobox protein homolog 3	-1.56	1.38E-02	-
Q60654	<b>Klra7</b>	Killer cell lectin-like receptor 7	-1.32	1.67E-03	-
Q8C129	<b>Lnpep</b>	Leucyl-cystinyl aminopeptidase	-1.24	2.61E-03	-
Q8C2J1	<b>Capn1</b>	Calpain-1 catalytic subunit	-1.23	1.03E-04	-
Q61823	<b>Pdcd4</b>	Programmed cell death protein 4	-1.23	3.32E-07	-
Q99KC8	<b>Vwa5a</b>	von Willebrand factor A domain-containing protein	-1.22	5.07E-04	-

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Q8VCW8	<b>Acsf2</b>	Acyl-CoA synthetase family member 2, mitochondrial	-1.08	5.17E-07	-