

Table 1: List of differentially expressed genes between WT and *Itk*^{-/-} mature V6 thymocytes.

List of the 195 genes that were increased or decreased in *Itk*^{-/-} V6 thymocytes compared to WT CD24^{lo} V6 thymocytes. Nomenclature is according to immgen.org: MatV6.WT= CD24(HSA)^{lo} V6 $\gamma\delta$ T cells from adult WT thymus; TotalV6.*Itk*^{-/-}, total V6 $\gamma\delta$ T cells from adult *Itk*^{-/-} thymus, which are 95-98% CD24^{lo}. Genes were classified as being increased if the mean expression value (MEV) was changed by 2-fold or more in pair wise comparisons with a coefficient of variation among replicates <0.5, *t*-test P-value<0.05, and MEV>120 in at least one population. For each gene, the MEV in each population is shown, along with the fold change (FC, ratio of MEVs) and *t*-test P-values. Fractional FC values indicative of decreased expression were converted to whole numbers (-1/FC). Table was sorted by the FC in ascending order.

Name	MatV6.WT	Total V6. <i>Itk</i> ^{-/-}	FC Total V6. <i>Itk</i> ^{-/-} /MatV6	t-test Total V6. <i>Itk</i> ^{-/-} /MatV6
<i>Klra5</i>	606.58	11.54	-52.56	0.0010557
<i>Klrc1</i>	575.27	28.56	-20.14	0.0000060
<i>Klra6</i>	252.79	25.40	-9.95	0.0016892
<i>Fcer1g</i>	757.52	76.45	-9.91	0.0001625
<i>Klrc2</i>	314.20	31.90	-9.85	0.0024922
<i>Lrrc6</i>	180.94	20.28	-8.92	0.0213632
<i>Ccl5</i>	726.60	91.14	-7.97	0.0374020
<i>Klrd1</i>	631.61	82.92	-7.62	0.0000130
<i>Blk</i>	981.73	129.00	-7.61	0.0000098
<i>Itga1</i>	191.72	27.91	-6.87	0.0011449
<i>Klrk1</i>	457.32	66.83	-6.84	0.0012523
<i>Cd244</i>	262.96	38.81	-6.78	0.0136412
<i>Klrb1f</i>	421.95	62.47	-6.75	0.0002129
<i>Ncr1</i>	142.58	21.59	-6.60	0.0106565
<i>Jun</i>	545.81	90.48	-6.03	0.0276376
<i>Ccr10</i>	667.55	115.88	-5.76	0.0005923
<i>Nkg7</i>	1413.22	257.11	-5.50	0.0010667
<i>Xcl1</i>	406.83	77.05	-5.28	0.0002279
<i>Epha3</i>	142.61	28.22	-5.05	0.0343729
<i>Myo1f</i>	713.09	143.31	-4.98	0.0007780
<i>Slamf7</i>	356.80	72.42	-4.93	0.0000429
<i>Styk1</i>	274.89	61.21	-4.49	0.0000092
<i>Slc9a7</i>	174.81	39.14	-4.47	0.0002986
<i>Sulf2</i>	229.41	51.77	-4.43	0.0029345
<i>Klrb1a</i>	179.61	43.37	-4.14	0.0006197
<i>Spp1</i>	128.78	31.26	-4.12	0.0204007
<i>Il21</i>	161.52	39.73	-4.07	0.0076207
<i>Ccr8</i>	760.04	191.17	-3.98	0.0002209
<i>Klrb1b</i>	170.35	43.26	-3.94	0.0001500
<i>Neur13</i>	257.75	65.94	-3.91	0.0002747
<i>Ifng</i>	167.13	44.39	-3.77	0.0087229
<i>Il18rap</i>	617.53	164.24	-3.76	0.0003828
<i>Trps1</i>	135.33	36.80	-3.68	0.0001248
<i>Klra9</i>	427.69	116.40	-3.67	0.0000355
<i>A430084P05Rik</i>	168.29	45.95	-3.66	0.0000021
<i>Spock2</i>	381.08	105.12	-3.63	0.0038692
<i>Cd7</i>	1718.07	477.23	-3.60	0.0000656
<i>Stat4</i>	418.30	117.76	-3.55	0.0001689
<i>Klra10</i>	433.45	124.98	-3.47	0.0000105

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<i>Vdr</i>	946.32	274.60	-3.45	0.0000512
<i>Serpina3f</i>	129.97	37.75	-3.44	0.0059606
<i>Il2rb</i>	2382.43	727.38	-3.28	0.0011186
<i>Lag3</i>	241.59	73.97	-3.27	0.0001228
<i>Ahr</i>	332.79	103.61	-3.21	0.0003202
<i>Dennd4a</i>	311.74	97.54	-3.20	0.0000671
<i>Tm6sf1</i>	661.31	211.55	-3.13	0.0018068
<i>Rnu3b1</i>	3624.65	1174.16	-3.09	0.0007692
<i>Lat2</i>	187.27	61.24	-3.06	0.0003966
<i>Snord118</i>	221.24	73.72	-3.00	0.0108502
<i>Itga4</i>	1075.93	359.05	-3.00	0.0033366
<i>Cpne7</i>	285.40	95.91	-2.98	0.0019574
<i>Arl4d</i>	274.38	94.09	-2.92	0.0091520
<i>H19</i>	196.42	67.36	-2.92	0.0298369
<i>Fasl</i>	178.06	63.37	-2.81	0.0003674
<i>Lyn</i>	223.84	79.74	-2.81	0.0007855
<i>Fam20a</i>	290.79	104.86	-2.77	0.0000514
<i>Lpar6</i>	1178.25	427.59	-2.76	0.0011545
<i>Gpr177</i>	194.75	70.93	-2.75	0.0007785
<i>Plscr1</i>	368.91	134.80	-2.74	0.0014697
<i>Cmah</i>	137.25	50.43	-2.72	0.0082426
<i>Maged1</i>	127.54	47.00	-2.71	0.0023434
<i>Ikzf3</i>	1046.56	386.01	-2.71	0.0015563
<i>Rnu3a</i>	1028.04	381.58	-2.69	0.0262510
<i>Il10ra</i>	130.51	48.55	-2.69	0.0008816
<i>F2r</i>	1152.13	429.83	-2.68	0.0002247
<i>Cx3cr1</i>	239.56	90.49	-2.65	0.0084698
<i>Scpep1</i>	191.05	73.02	-2.62	0.0000780
<i>Emp3</i>	750.95	289.51	-2.59	0.0008284
<i>Sox4</i>	314.39	122.27	-2.57	0.0018326
<i>Srgap3</i>	144.14	56.99	-2.53	0.0070167
<i>Hist1h2bg</i>	305.89	121.55	-2.52	0.0004475
<i>Slc15a2</i>	148.60	59.43	-2.50	0.0010909
<i>Tbx21</i>	494.19	197.80	-2.50	0.0002969
<i>Ly6c2</i>	1082.55	435.77	-2.48	0.0003159
<i>Gzmb</i>	633.86	255.90	-2.48	0.0008128
<i>Nr4a1</i>	616.33	248.83	-2.48	0.0006337
<i>Fosb</i>	168.15	68.19	-2.47	0.0479280
<i>Samd3</i>	269.60	110.31	-2.44	0.0001055
<i>Sccpdh</i>	282.67	116.33	-2.43	0.0008605
<i>Tmem176b</i>	278.99	114.90	-2.43	0.0004377
<i>Ikzf2</i>	835.81	344.31	-2.43	0.0012362
<i>Xdh</i>	390.25	161.42	-2.42	0.0002561
<i>2010002N04Rik</i>	146.93	60.90	-2.41	0.0017150
<i>Itgae</i>	1372.08	570.78	-2.40	0.0003836
<i>A430093F15Rik</i>	567.11	236.90	-2.39	0.0131224
<i>Thbs1</i>	236.69	99.04	-2.39	0.0000006
<i>Cysltr2</i>	138.97	58.38	-2.38	0.0011334
<i>I730030J21Rik</i>	632.35	266.79	-2.37	0.0004160
<i>Angptl2</i>	263.64	112.22	-2.35	0.0000469
<i>Lgals1</i>	3635.99	1551.19	-2.34	0.0000039

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<i>Trf</i>	510.17	218.57	-2.33	0.0021964
<i>Arap3</i>	439.53	189.63	-2.32	0.0012150
<i>Lass6</i>	144.92	63.03	-2.30	0.0027767
<i>Anxa6</i>	2366.86	1040.20	-2.28	0.0006272
<i>Emp1</i>	206.61	90.97	-2.27	0.0011383
<i>Nrp1</i>	317.76	140.73	-2.26	0.0061755
<i>Crim1</i>	411.38	183.74	-2.24	0.0003377
<i>Sidt1</i>	397.81	179.59	-2.22	0.0023735
<i>Spry2</i>	845.57	381.82	-2.21	0.0007383
<i>Ifngr1</i>	757.30	343.46	-2.20	0.0010733
<i>Rxra</i>	360.48	163.55	-2.20	0.0048260
<i>Ubash3b</i>	660.65	304.03	-2.17	0.0000687
<i>Ms4a4b</i>	685.57	318.49	-2.15	0.0030471
<i>Gpr114</i>	453.28	210.77	-2.15	0.0090368
<i>H2-Q6</i>	1405.72	655.29	-2.15	0.0000005
<i>Atp5d</i>	1706.72	799.55	-2.13	0.0000852
<i>Cd1d1</i>	357.90	168.53	-2.12	0.0021637
<i>Gpr52</i>	132.88	62.71	-2.12	0.0216561
<i>Maf</i>	795.65	375.64	-2.12	0.0009779
<i>Tagap</i>	830.13	392.10	-2.12	0.0016755
<i>Prkcb</i>	405.55	191.74	-2.12	0.0030816
<i>Ehd4</i>	266.80	126.90	-2.10	0.0000278
<i>Tirap</i>	402.75	193.28	-2.08	0.0025335
<i>Tns4</i>	146.50	70.36	-2.08	0.0064425
<i>Rnu1b1</i>	538.16	258.71	-2.08	0.0055281
<i>5830411N06Rik</i>	444.51	214.56	-2.07	0.0056417
<i>Prex1</i>	879.49	424.61	-2.07	0.0008968
<i>Klf2</i>	591.97	291.58	-2.03	0.0004505
<i>Adamts10</i>	452.36	223.25	-2.03	0.0043571
<i>Otud1</i>	292.70	144.89	-2.02	0.0000232
<i>Tnfsf10</i>	519.72	258.72	-2.01	0.0012965
<i>Dad1</i>	1040.71	518.59	-2.01	0.0005191
<i>Slc25a38</i>	393.85	196.41	-2.01	0.0012226
<i>Rorc</i>	206.50	103.16	-2.00	0.0002276
<i>1110002B05Rik</i>	792.39	1589.13	2.01	0.0184379
<i>Rps3a</i>	2281.02	4591.84	2.01	0.0015101
<i>Pttg1</i>	205.19	413.76	2.02	0.0002329
<i>Cdkn1b</i>	292.66	591.26	2.02	0.0304524
<i>BC002163</i>	156.48	318.13	2.03	0.0016174
<i>Akap6</i>	189.94	387.76	2.04	0.0001164
<i>AI747699</i>	162.62	334.80	2.06	0.0025647
<i>Gm10785</i>	67.18	139.14	2.07	0.0033010
<i>Mpp6</i>	281.16	585.54	2.08	0.0000206
<i>Gm7239</i>	141.52	296.50	2.10	0.0394281
<i>Gm13194</i>	68.68	145.16	2.11	0.0025320
<i>Rpl35a</i>	1196.90	2554.14	2.13	0.0024201
<i>Hectd2</i>	112.45	242.97	2.16	0.0330727
<i>St8sia1</i>	222.18	482.05	2.17	0.0001005
<i>Gm9197</i>	994.12	2202.35	2.22	0.0001031
<i>Impdh2</i>	294.13	652.69	2.22	0.0000299
<i>2010016I18Rik</i>	118.21	263.02	2.23	0.0112077

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<i>Gm7693</i>	62.91	141.15	2.24	0.0059760
<i>Rnf7</i>	103.18	232.59	2.25	0.0192755
<i>Gm8936</i>	206.21	465.75	2.26	0.0152089
<i>Hist1h1b</i>	1318.93	3015.55	2.29	0.0117301
<i>Gm6134</i>	331.75	758.86	2.29	0.0000140
<i>Grm4</i>	53.33	123.55	2.32	0.0005304
<i>BC005685</i>	407.02	945.25	2.32	0.0053203
<i>Spc25</i>	160.39	374.62	2.34	0.0075292
<i>Tex2</i>	427.33	999.45	2.34	0.0001571
<i>Fam169b</i>	94.11	220.45	2.34	0.0000470
<i>Robo1</i>	57.14	134.01	2.35	0.0007106
<i>B930036N10Rik</i>	210.75	500.86	2.38	0.0071539
<i>Vegfa</i>	74.56	178.74	2.40	0.0057285
<i>Rps19</i>	548.43	1319.58	2.41	0.0000366
<i>Fam46c</i>	118.20	284.78	2.41	0.0013337
<i>Plce1</i>	50.35	121.60	2.42	0.0011939
<i>Sgk3</i>	246.65	607.50	2.46	0.0009173
<i>D10Erttd322e</i>	57.58	143.80	2.50	0.0017007
<i>Gm6983</i>	90.93	227.19	2.50	0.0045592
<i>LOC641050</i>	250.49	626.57	2.50	0.0008188
<i>Cox6a1</i>	552.67	1403.36	2.54	0.0000628
<i>Utp3</i>	181.54	461.32	2.54	0.0000084
<i>Hc</i>	69.27	176.93	2.55	0.0022111
<i>Aldh2</i>	147.82	379.00	2.56	0.0016297
<i>Ccr2</i>	521.37	1362.91	2.61	0.0008710
<i>Smpdl3b</i>	54.67	143.30	2.62	0.0001684
<i>Lrig1</i>	138.28	364.03	2.63	0.0000121
<i>LOC625360</i>	150.83	398.74	2.64	0.0009480
<i>Pde7b</i>	59.64	162.00	2.72	0.0007030
<i>Trim36</i>	247.95	673.74	2.72	0.0000485
<i>Tmie</i>	130.23	371.28	2.85	0.0000807
<i>Themis</i>	162.95	467.02	2.87	0.0000768
<i>Nrn1</i>	49.83	144.73	2.90	0.0143701
<i>Atp8a2</i>	269.36	790.60	2.94	0.0025624
<i>Adh1</i>	583.07	1767.54	3.03	0.0034993
<i>Ass1</i>	510.21	1693.13	3.32	0.0025969
<i>Gm12643</i>	346.02	1167.90	3.38	0.0028830
<i>Rps6ka2</i>	86.03	291.21	3.38	0.0000609
<i>Rpl22l1</i>	191.16	694.60	3.63	0.0032522
<i>Gm10673</i>	84.39	315.49	3.74	0.0278930
<i>Ctla2a</i>	109.64	413.21	3.77	0.0190028
<i>Slc15a1</i>	109.04	425.47	3.90	0.0043181
<i>Gadl1</i>	279.47	1170.05	4.19	0.0013129
<i>Asns</i>	72.29	312.27	4.32	0.0008115
<i>Atp6v0d2</i>	34.53	149.56	4.33	0.0073007
<i>Fam84a</i>	68.19	313.77	4.60	0.0012338
<i>Aqp9</i>	110.77	520.86	4.70	0.0004120
<i>Cd4</i>	311.11	1624.03	5.22	0.0006427
<i>Lztf1l</i>	356.46	1917.36	5.38	0.0000484
<i>Ccr9</i>	379.30	2109.04	5.56	0.0000886
<i>Gpnmb</i>	203.37	1236.47	6.08	0.0000103

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<i>Art2b</i>	347.96	2138.62	6.15	0.0000559
<i>Tdgf1</i>	139.25	926.29	6.65	0.0001251
<i>1810011H11Rik</i>	104.81	863.26	8.24	0.0002451