

<b>A</b>	<b>Gene</b>	<b>20-39</b>	<b>40-49</b>	<b>50-59</b>	<b>60-79</b>
	<i>DLD</i>	75.68%	63.79%	42.34%	40.43%
	<i>PDHB</i>	64.86%	63.79%	45.05%	41.49%
	<i>DLAT</i>	72.97%	55.17%	46.85%	41.49%
	<i>SDHC</i>	64.86%	60.34%	44.14%	44.68%
	<i>OGDH</i>	67.57%	55.17%	48.65%	41.49%
	<i>FH</i>	70.27%	55.17%	45.05%	44.68%
	<i>IDH2</i>	48.65%	56.90%	50.45%	45.74%
	<i>SDHA</i>	70.27%	60.34%	45.05%	41.49%
	<i>MDH1</i>	56.76%	56.90%	47.75%	45.74%
	<i>ACO2</i>	75.68%	46.55%	48.65%	43.62%
	<i>PDHA1</i>	64.86%	51.72%	47.75%	45.74%
	<i>FADD</i>	70.27%	67.24%	51.35%	29.79%
	<i>GSK3B</i>	75.68%	56.90%	45.05%	41.49%
	<i>NDUFS1</i>	67.57%	60.34%	45.95%	41.49%
	<i>NDUFV3</i>	70.27%	55.17%	52.25%	36.17%
	<i>ATP5A1</i>	70.27%	55.17%	44.14%	45.74%
	<i>UQCRC1</i>	72.97%	55.17%	42.34%	46.81%
	<i>NDUFA9</i>	62.16%	58.62%	45.95%	44.68%
	<i>ATP5F1</i>	59.46%	55.17%	47.75%	45.74%
	<i>MAPK1</i>	62.16%	55.17%	44.14%	48.94%
	<i>UQCRC2</i>	67.57%	48.28%	43.24%	52.13%
	<i>NDUFB5</i>	59.46%	48.28%	49.55%	47.87%
	<i>ATP5C1</i>	64.86%	56.90%	44.14%	46.81%
	<i>ATP5B</i>	70.27%	51.72%	46.85%	44.68%
	<i>IDE</i>	51.35%	63.79%	46.85%	44.68%
	<i>EIF2AK3</i>	54.05%	55.17%	49.55%	45.74%
	<i>NDUFV2</i>	54.05%	55.17%	41.44%	55.32%
	<i>PSMB2</i>	64.86%	56.90%	47.75%	42.55%
	<i>PSMD1</i>	70.27%	58.62%	45.05%	42.55%
	<i>PSMC1</i>	72.97%	63.79%	41.44%	42.55%
	<i>PSMA6</i>	70.27%	63.79%	43.24%	41.49%
	<i>PSMA5</i>	70.27%	62.07%	44.14%	41.49%
	<i>PSMD12</i>	67.57%	68.97%	40.54%	42.55%
	<i>PSMD11</i>	70.27%	65.52%	41.44%	42.55%
	<i>PSMA3</i>	64.86%	62.07%	45.05%	42.55%
	<i>PSMA1</i>	56.76%	62.07%	41.44%	50.00%
	<i>PSMC2</i>	70.27%	62.07%	43.24%	42.55%
	<i>PSMA4</i>	51.35%	60.34%	50.45%	42.55%
	<i>PSMB5</i>	56.76%	60.34%	45.95%	45.74%
	<i>PSMD2</i>	70.27%	58.62%	41.44%	46.81%
	<i>PSMD14</i>	59.46%	56.90%	46.85%	45.74%
	<i>PSMB1</i>	62.16%	55.17%	43.24%	50.00%
	<i>PSMD13</i>	56.76%	53.45%	44.14%	52.13%
	<i>PSMC4</i>	54.05%	60.34%	45.05%	47.87%
	<i>KEAP1</i>	70.27%	56.90%	47.75%	40.43%
	<i>TRIM32</i>	64.86%	65.52%	51.35%	32.98%
	<i>CUL3</i>	72.97%	55.17%	39.64%	50.00%
	<i>UBE3C</i>	72.97%	60.34%	45.05%	40.43%
	<i>UBE2J1</i>	78.38%	58.62%	41.44%	43.62%
	<i>PRPF19</i>	67.57%	51.72%	54.95%	36.17%
	<i>DDB1</i>	70.27%	58.62%	43.24%	44.68%
	<i>RFWD2</i>	67.57%	58.62%	42.34%	46.81%
	<i>UBE2K</i>	62.16%	60.34%	40.54%	50.00%
	<i>TRIP12</i>	64.86%	63.79%	41.44%	45.74%
	<i>XIAP</i>	67.57%	58.62%	45.95%	42.55%
	<i>CDC20</i>	59.46%	63.79%	41.44%	47.87%

<b>B</b>	<b>Gene</b>	<b>20-39</b>	<b>40-49</b>	<b>50-59</b>	<b>60-79</b>
	<i>ITK</i>	24.32%	34.48%	57.66%	60.64%
	<i>ZAP70</i>	18.92%	39.66%	58.56%	58.51%
	<i>CD247</i>	21.62%	44.83%	56.76%	56.38%
	<i>PTPRC</i>	32.43%	46.55%	56.76%	51.06%
	<i>PDCD1</i>	16.22%	48.28%	56.76%	56.38%
	<i>RASGRP1</i>	32.43%	48.28%	56.76%	50.00%
	<i>GRAP2</i>	18.92%	41.38%	64.86%	50.00%
	<i>CD8A</i>	27.03%	39.66%	60.36%	53.19%
	<i>CD8B</i>	27.03%	46.55%	56.76%	53.19%
	<i>CARD11</i>	35.14%	48.28%	56.76%	48.94%
	<i>ICOS</i>	29.73%	41.38%	58.56%	53.19%
	<i>LCK</i>	32.43%	41.38%	54.95%	56.38%
	<i>CTLA4</i>	32.43%	41.38%	54.95%	56.38%
	<i>CD28</i>	35.14%	48.28%	59.46%	45.74%
	<i>CD3D</i>	43.24%	50.00%	53.15%	48.94%
	<i>FASLG</i>	29.73%	43.10%	60.36%	50.00%

**SUPPLEMENTARY FIG. S3.** Proportion of samples which have higher normalized expression value than median of each gene was colored in orange. **(A)** Mitochondrial genes and proteasome genes. **(B)** Immune response genes.