

Figure S1: Normalized gene expression values from classification of all COVID patients vs healthy individuals. (A) Boxplots of gene expression values for COVID and healthy samples from 3 publicly available datasets pre- and post- z-score normalization. **(B)** Bar graphs comparing normalized expression values of the top 20 gene features resulting from the iterative ML pipeline comparing all COVID patients and healthy individuals. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$, **** $p < 0.0001$

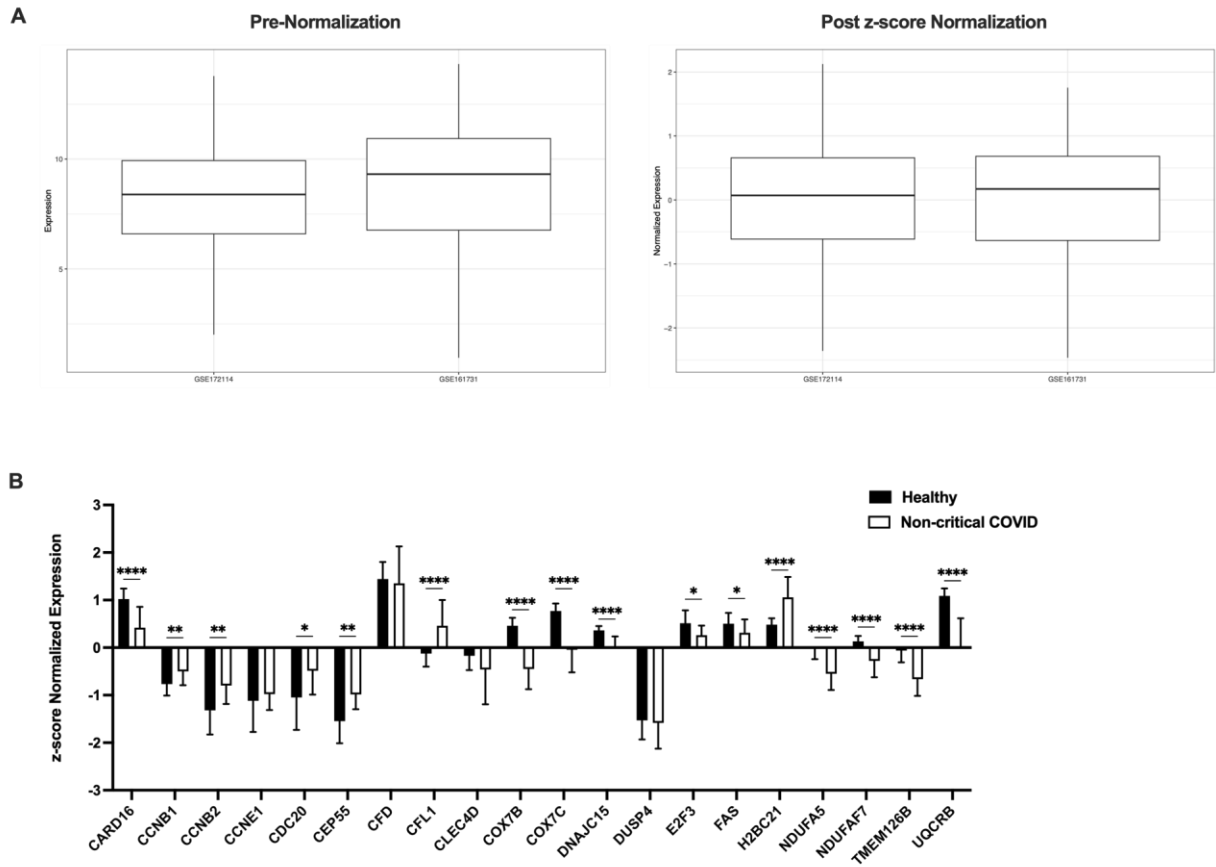


Figure S2: Normalized gene expression values from classification of non-critical COVID patients vs healthy individuals. (A) Boxplots of gene expression values for non-critical COVID and healthy samples from 2 publicly available datasets pre- and post- z-score normalization. **(B)** Bar graphs comparing normalized expression values of the top 20 gene features resulting from the iterative ML pipeline comparing non-critical COVID patients and healthy individuals. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$, **** $p < 0.0001$

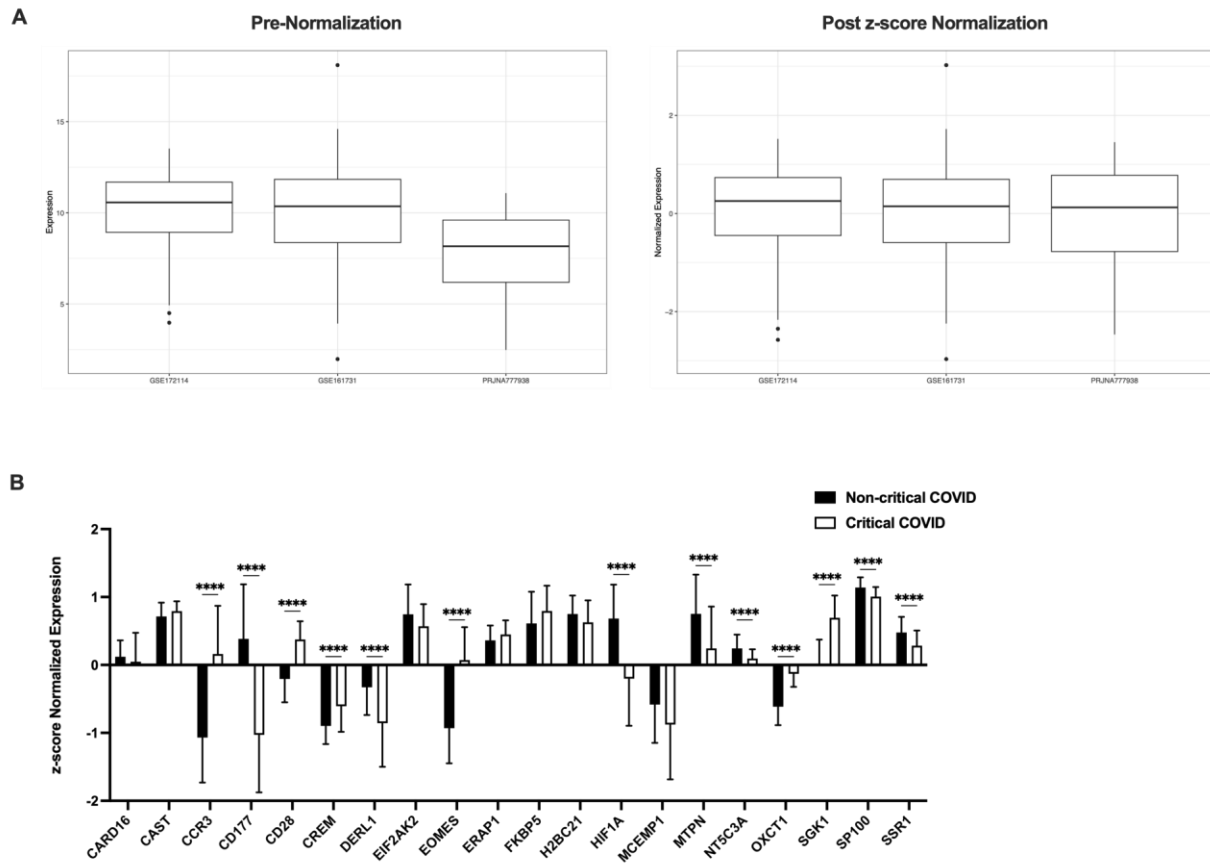


Figure S3: Normalized gene expression values from classification of critical vs non-critical COVID patients. (A) Boxplots of gene expression values for critical and non-critical COVID samples from 3 publicly available datasets pre- and post- z-score normalization. **(B)** Bar graphs comparing normalized expression values of the top 20 gene features resulting from the iterative ML pipeline comparing critical and non-critical COVID patients. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$, **** $p < 0.0001$

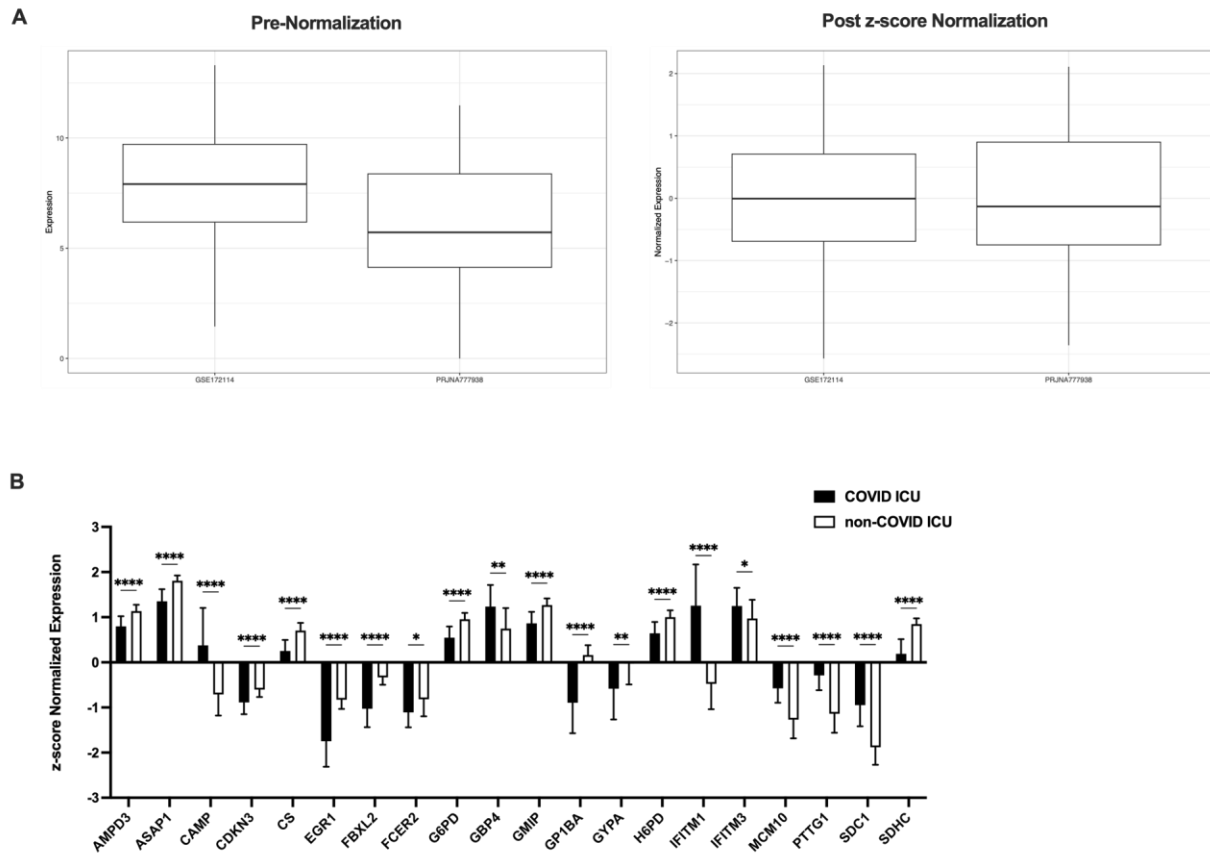


Figure S4: Normalized gene expression values from classification of COVID vs non-COVID ICU patients. (A) Boxplots of gene expression values for COVID and non-COVID ICU samples from 2 publicly available datasets pre- and post- z-score normalization. (B) Bar graphs comparing normalized expression values of the top 20 gene features resulting from the iterative ML pipeline comparing COVID and non-COVID ICU patients. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$, **** $p < 0.0001$