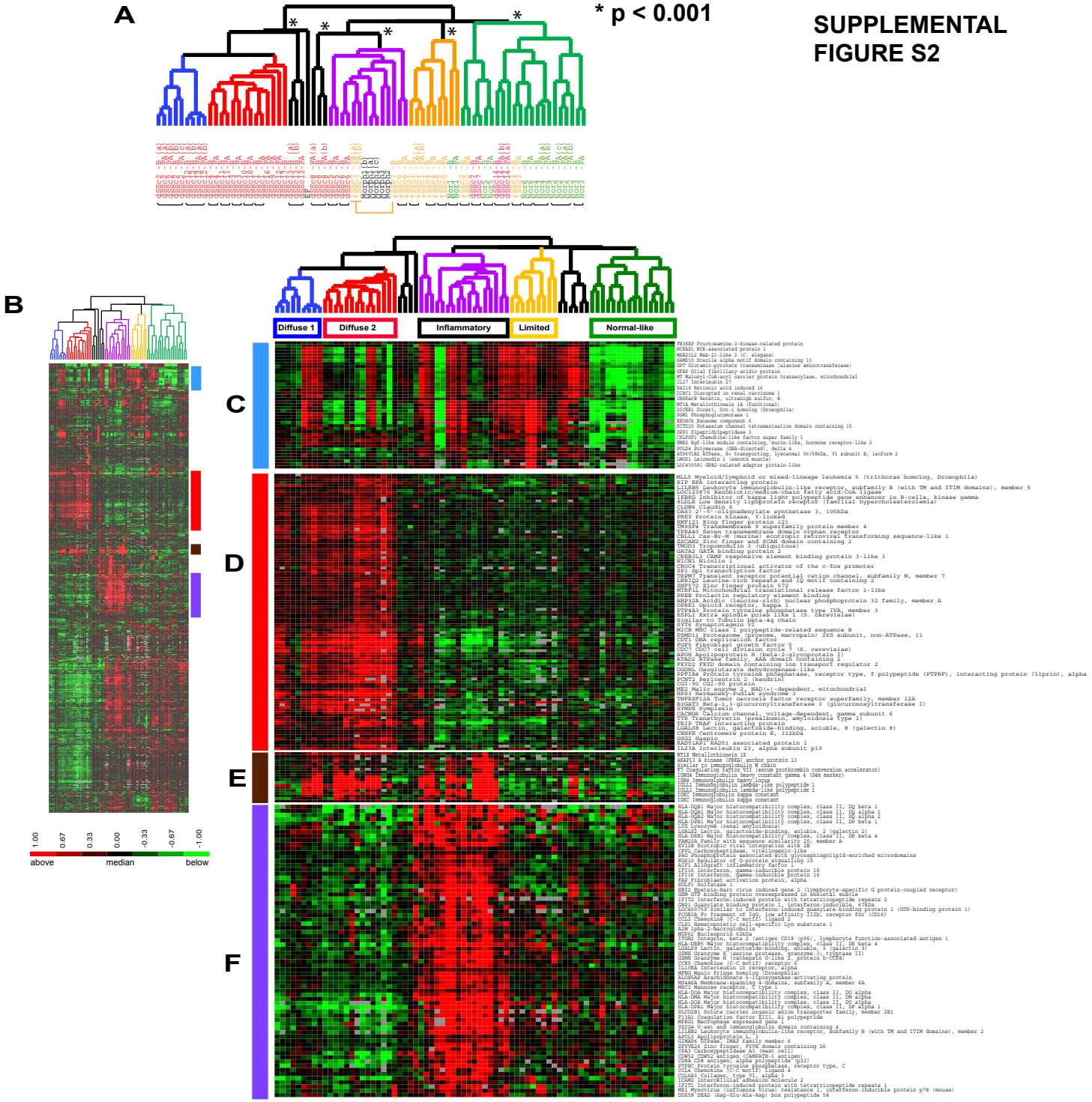SUPPLEMENTAL FIGURE S2