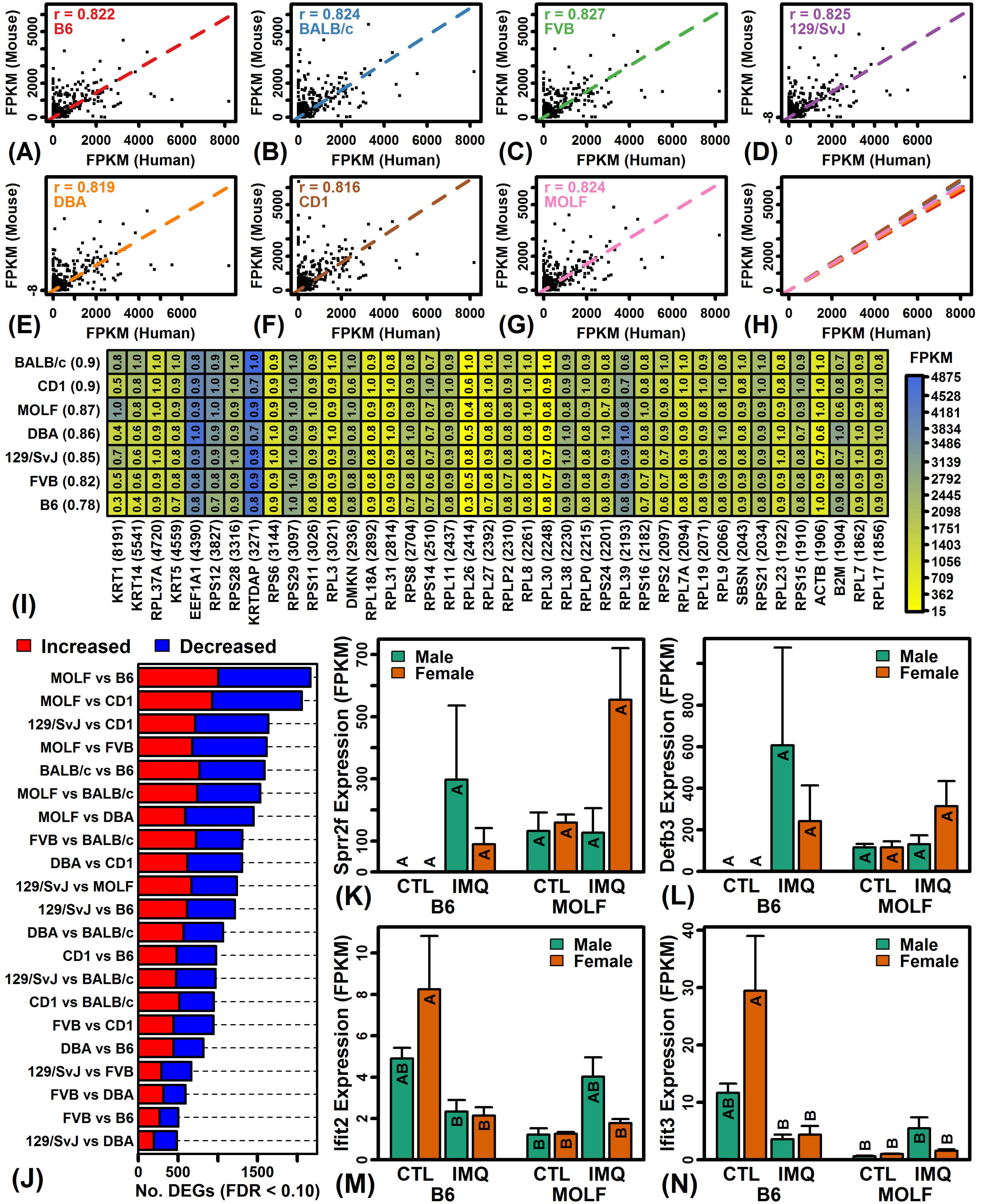
Additional File 3. CTL sample expression among mouse strains and comparison to normal human skin. (A – G) Spearman correlation of average expression (FPKM) in CTL mouse skin (*n* = 4 per strain, males + females) and normal human skin (*n* = 90 subjects; GSE54456). Dashed lines represent robust linear regression estimates. (H) Overlap of robust regression estimates for each strain. (I) Genes with highest expression in normal human skin (bottom margin parentheses: average FPKM). Heatmap colors depict average FPKM in CTL mouse skin for each strain (see legend). Relative FPKM across strains is indicated by values within the heatmap (1 = strain with highest expression; left margin parentheses: average relative expression across genes). (J) Number of genes differentially expressed between CTL samples (FDR < 0.10; FC > 2.0 or FC < 0.50; all 21 possible strain comparisons; red: higher expression in first strain listed; blue: higher expression in second strain listed). (K – N) Genes with different expression in CTL samples from B6 and MOLF mice. Groups without the same letter differ significantly (P < 0.05, Tukey honest significant difference; Error bars: standard error of the mean).



	KRT1 (8191)	KRT14 (5541)	RPL37A (4720)	KRT5 (4559)	EEF1A1 (4390)	RPS12 (3827)	RPS28 (3316)	KRTDAP (3271)	RPS6 (3144)	RPS29 (3097)	RPS11 (3026)	RPL3 (3021)	DMKN (2936)	RPL18A (2892)	RPL31 (2814)	RPS8 (2704)	RPS14 (2510)	RPL11 (2437)	RPL26 (2414)	RPL27 (2392)
BALB/c (0.9)	0.8	1.0	1.0	1.0	0.8	0.9	1.0	1.0	0.9	1.0	0.9	1.0	1.0	0.9	0.8	0.8	0.7	0.9	1.0	1.0
CD1 (0.9)	0.5	0.8	1.0	0.9	0.9	1.0	1.0	0.7	0.9	1.0	0.9	0.9	0.6	1.0	1.0	0.9	1.0	1.0	0.6	1.0
MOLF (0.87)	1.0	0.8	1.0	0.9	0.9	1.0	0.9	0.9	0.9	1.0	1.0	0.9	1.0	0.9	0.9	0.9	0.7	0.9	0.4	0.8
DBA (0.86)	0.4	0.6	0.9	0.8	1.0	0.9	0.9	0.7	1.0	0.9	0.9	1.0	0.8	0.8	1.0	1.0	0.7	0.9	0.5	0.8
129/SvJ (0.85)	0.7	0.6	1.0	0.8	0.9	0.9	1.0	0.9	1.0	1.0	0.9	0.9	0.9	0.8	0.9	0.8	0.7	0.9	0.8	0.9
FVB (0.82)	0.5	0.6	0.9	0.8	0.8	0.8	0.9	0.9	0.9	1.0	0.9	0.9	0.8	0.8	0.9	0.8	0.6	0.9	0.5	0.8
B6 (0.78)	0.3	0.4	0.9	0.7	0.8	0.7	0.9	0.8	0.9	1.0	0.8	0.8	0.8	0.9	0.9	0.7	0.7	0.8	0.3	0.7

	RPLP2 (2310)	RPL8 (2261)	RPL30 (2248)	RPL38 (2230)	RPLP0 (2215)	RPS24 (2201)	RPL39 (2193)	RPS16 (2182)	RPS2 (2097)	RPL7A (2094)	RPL19 (2071)	RPL9 (2066)	SBSN (2043)	RPS21 (2034)	RPL23 (1922)	RPS15 (1910)	ACTB (1906)	B2M (1904)	RPL7 (1862)	RPL17 (1856)
BALB/c (0.9)	1.0	1.0	1.0	0.9	0.9	0.8	0.6	0.8	1.0	1.0	0.9	0.8	1.0	1.0	0.8	0.9	1.0	0.7	0.9	0.8
CD1 (0.9)	0.9	1.0	0.9	0.9	1.0	0.9	0.7	0.8	0.8	1.0	1.0	1.0	0.8	1.0	0.8	1.0	1.0	0.8	0.9	1.0
MOLF (0.87)	0.8	1.0	0.8	0.8	0.9	0.7	0.8	1.0	0.9	0.8	0.8	0.8	0.9	0.9	0.9	0.9	1.0	0.6	0.9	0.8
DBA (0.86)	0.8	0.8	0.9	1.0	0.8	1.0	1.0	0.8	0.9	0.9	0.9	1.0	0.8	0.9	1.0	0.7	0.6	1.0	1.0	1.0
129/SvJ (0.85)	0.8	0.8	0.7	1.0	0.8	0.9	0.9	0.8	0.7	0.9	0.9	0.8	0.8	0.9	1.0	0.8	0.7	0.7	1.0	0.9
FVB (0.82)	0.7	0.8	0.7	0.9	0.8	0.9	0.9	0.7	0.7	0.8	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.8	0.9	0.9
B6 (0.78)	0.8	0.8	0.8	0.9	0.8	0.8	0.8	0.7	0.6	0.8	0.8	0.8	0.9	0.8	0.9	0.8	1.0	0.9	0.9	0.9