

Supplemental Table 1: Reduction of expression of genes involved in inflammation

| Gene | <i>MLK3</i> ^{-/-} * (% of WT FFC-fed mice) | URMC099 (% of vehicle-treated, FFC-fed mice) | p value |
|--------|---|--|---------|
| CXCL10 | 39.4 ± 6.8, n=5 | 58.9 ± 7.8, n=4 | ns |
| TNF-α | 68.4 ± 3.7, n=6 | 50.1 ± 7.2, n=4 | p<0.05 |
| F4/80 | 62.3 ± 3.4, n=6 | 54.7 ± 7.6, n=5 | ns |
| MCP-1 | 74.0 ± 6.7, n=6 | 52.4 ± 7.4, n=4 | ns |
| CD68 | 41.4 ± 3.0, n=6 | 33.7 ± 5.1, n=4 | ns |

* Data from Ibrahim et al. Liver Int. 2014 (reference 22), and Hepatology 2016 (reference 23), ns (non-significant). Percent of reduction in the expression of key genes involved in hepatic inflammation in *MLK3*^{-/-} mice on an obesity-inducing diet vs URMC099-treated, wild type mice on an obesity-inducing diet compared to untreated WT mice on an obesity inducing-diet.