Supplementary Information

Identification of G-protein coupled receptor 55 (GPR55) as a target of curcumin

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Supplementary Figure 1. Unprocessed blot images of GPR55-V5 and β-actin blots shown in Figures 1h and 1i. The experimental procedures are described in the Materials and Methods section.
**Supplementary Table 1.** Primers for construction of mutant GPR55 expression vectors

| Primer    | Sequences                                      |
|-----------|-----------------------------------------------|
| Fw: GPR55/H170A | 5′-CATGTGCCTCGCAACATGTCTGATGATACCTG-3′   |
| Rev: GPR55/H170A | 5′-CAGGTATCAGCACATGTCGAGACGACATG-3′   |
| Fw: GPR55/N171A  | 5′-CATGTGCCTCCACGCCATGCTCTGATGACCTG-3′  |
| Rev: GPR55/N171A | 5′-CAGGTATCAGACATGGCGGAGCACTG-3′       |
| Fw: GPR55/S173A  | 5′-CCTCTCCAACATGACCATGATACTGGAGCG-3′  |
| Rev: GPR55/S173A | 5′-CGTCCAGGGATCATCAGGGGCAGTACCTG-3′   |
| Fw: GPR55/F102A  | 5′-GCTCCAGGTATCAGACATGGCGGAGACG-3′  |
| Rev: GPR55/F102A | 5′-CCCTCCAGGTACCATGCTGAGGAGCAAC-3′   |
| Fw: GPR55/I1156A | 5′-GACCGGAAAGCATCCCTACAGTTTCCATGG-3′ |
| Rev: GPR55/I1156A | 5′-CCATGGAAACTGTAGGCAGGGATGCTTCCGGT-3′ |
| Fw: GPR55/F159A  | 5′-GCATCCCTATTCAGATGCGCCATGGAAGTC-3′  |
| Rev: GPR55/F159A | 5′-CCCTTCCCATGCGACATGGATGAGGATGC-3′ |
| Fw: GPR55/F182A  | 5′-GGAAGCGCAAAGTGCTGCTTCCCGCTGGAGAGT-3′   |
| Rev: GPR55/F182A | 5′-CCCTCCAGGGGAAGGCAGTACCTGGGACCT-3′   |
| Fw: GPR55/E186A  | 5′-GTCTTCTTCCCAGCTGGGAGGTCTGCTCCTC-3′  |
| Rev: GPR55/E186A | 5′-GAGGAAGCCCAACACCGCCAGCGGAAAGAC-3′    |
| Fw: GPR55/F190A  | 5′-CTGAGGTGAGCTTTTGCGCCTCCTCCATGGGC-3′  |
| Rev: GPR55/F190A | 5′-GCAAGATGGGAAGAGGCGCCAAACACCTCCAG-3′  |
| Fw: GPR55/F246A  | 5′-CAGTCCACCTGGGCGCCTCAGTGCCTCCTG-3′  |
| Rev: GPR55/F246A | 5′-CAGGACACTGCAGGAAGGCGCCACGGTGGAGCTG-3′ |