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Genomic exploration of foot-and-mouth disease signal molecules in Malnad Gidda and Hallikar breeds of Karnataka: A RNA-seq approach

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Supplementary Table 1. Biological process and molecular function of DEG

Biological process		
Description	Count	P-value
Defense response to virus	12	5.69E-05
Negative regulation of viral genome replication	6	1.03E-04
Mitochondrial respiratory chain complex I assembly	6	1.34E-03
Translation	11	0.001874873
Ribosomal small subunit biogenesis	5	0.002639458
Hydrogen ion transmembrane transport	6	0.003681352
Modification-dependent protein catabolic process	3	0.008796326
Response to interferon-alpha	3	0.008796326
Blood vessel development	4	0.010841432
Mitochondrial ATP synthesis coupled proton transport	3	0.014180919
Positive regulation of ubiquitin-protein transferase activity	3	0.016221908
Negative regulation of type I interferon-mediated signaling pathway	3	0.018380091
Type I interferon signaling pathway	3	0.020652052
Response to virus	4	0.02669532
Molecular function		
Description	Count	P-value
Double-stranded RNA binding	5	0.001212
Protein ADP-ribosylase activity	3	0.004343
GTP binding	9	0.005037
Integrin binding	5	0.005652
Structural constituent of ribosome	7	0.006968
Lyase activity	2	0.00769
Zinc ion binding	12	0.008248
Ribonuclease A activity	1	0.013242
NAD+ ADP-ribosyltransferase activity	3	0.016862
Identical protein binding	14	0.017222
Peptidase activity	3	0.020204
GTPase activity	7	0.023522
2’-5’-oligoadenylate synthetase activity	2	0.032779
Structural constituent of cytoskeleton	3	0.043588