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|  **Table 1: Genes Up-Regulated by NTT-MMP2**  |
| Gene Symbol  | Fold-Change  | Gene Name  |
| *Viral Stress Induced Genes*  |
| OAS1A  | 13.2  | 2’-5’ oligoadenylate synthetase 1 A  |
| OAS1B  | 10.9  | 2’-5’ oligoadenylate synthetase 1B  |
| OASL1  | 9.6  | 2’-5’ oligoadenylate synthetase-like 1  |
| ADAR  | 3.0  | Adenosine deaminase-RNA specific  |
| IFIT1  | 11.8  | Interferon-induced protein with tetratricopeptide repeats 1  |
| IFIT2  | 8.0  | Interferon-induced protein with tetratricopeptide repeats 2  |
| IFIT3 |  2.1  | Interferon-induced protein with tetratricopeptide repeats 3  |
| PRKRA |  2.1  | Protein kinase, interferon-inducible double stranded RNA-dependent  |
| GSTA3  | 4.6  | Glutathione S-transferase 3  |
| GBP2  | 2.1  | Guanylate binding protein 2, interferon-inducible  |
| *Viral Stress Induced Transcription Factors*  |
| IRF7  | 4.0  | Interferon regulatory factor 7  |
| STAT2  | 2.0  | Signal transduction and activator of transcription 2  |
| IFP35  | 2.9  | Interferon-induced protein 35  |
| PARP14  | 3.7  | Poly [ADP-ribose] polymerase 14  |

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| Gene Symbol  | Fold-Change  | Gene Name  |
| *Ubiquination/Proteosome/Autophagy*  |
| USP18 |  13.8  | Ubiquitin-specific peptidase 18 ortholog  |
| DTX32 |  3.1  | Deltex3-like  |
| Ube216 |  3.0  | Ubiquitin-conjugating enzyme E2L 6 ortholog  |
| PSMB9  | 2.7  | Proteosome subunit B type 9  |
| IRGM1  | 3.5  | Immunity-related GTPase family M  |
| *Chemokines/Cytokines*  |
| CXCL10  | 5.1  | Chemokine (C-X-C) ligand 10  |
| CCL2 |  3.1  | Chemokine (C-C motif ligand 2/monocyte chemotactic protein-1  |
| IL6  | 2.9  | Interleukin 6  |
| CXCL1  | 2.4  | Chemokine (C-X-C) ligand 1  |
| *Signaling*  |
| KCNT1  | 2.7  | Potassium channel, subfamily T, member 1 (NA+ activated K channel)  |
| ADAP12  | 2.0  | A kinase (PRKA) anchor protein 12  |
| *Other*  |
| MTA1  | 2.1  | Metallothionein 1A  |
| COXA2 |  2.0  | Cytochrome C oxidase subunit VIa, polypeptide 2 (heart)  |