

Additional data 1

DEGs of the up-regulated genes at 1 hour after LLL irradiation.

| Gene Symbol | Fold Change | p-value | Gene Symbol | Fold Change | p-value |
|------------------|-------------|-----------|-------------------------------|-------------|-----------|
| SNAR-G1 | 2.39 | 4.00.E-04 | ZNF432 | 1.75 | 2.98.E-02 |
| TRPM5 | 2.34 | 9.70.E-03 | MIR637; DAPK3 | 1.73 | 2.58.E-02 |
| MIR4277 | 2.22 | 2.21.E-02 | LOC100506257 | 1.73 | 3.87.E-02 |
| POLR2J3; POLR2J2 | 2.17 | 1.00.E-04 | LOC105375666 | 1.72 | 2.80.E-03 |
| GSTA2 | 2.12 | 8.00.E-04 | MIR521-2 | 1.71 | 3.28.E-02 |
| HCP5 | 2.11 | 1.62.E-02 | FAM87B | 1.7 | 1.00.E-04 |
| MIR3135B | 2.01 | 3.70.E-03 | MSTO1 | 1.69 | 3.55.E-02 |
| SNORD18C; RPL4 | 2.01 | 2.11.E-02 | TEX38 | 1.67 | 4.16.E-02 |
| MIR338 | 2 | 9.00.E-03 | MIR3130-2 | 1.67 | 4.44.E-02 |
| LOC100506123 | 1.97 | 1.11.E-02 | LOC101926940 | 1.67 | 1.40.E-02 |
| TSSK3 | 1.93 | 3.20.E-03 | LOC102724087 | 1.67 | 4.51.E-02 |
| MIR4756 | 1.88 | 3.57.E-02 | NPIP6 | 1.67 | 7.70.E-03 |
| GTF2IP20 | 1.88 | 2.47.E-02 | LOC105376834 | 1.66 | 2.10.E-03 |
| ZNF557 | 1.88 | 4.64.E-02 | LOC105373547; LOC105373552 | 1.65 | 5.00.E-03 |
| LOC101929787 | 1.87 | 3.80.E-03 | FAM185A | 1.65 | 3.93.E-02 |
| IGLC2; IGLJ3 | 1.87 | 6.60.E-03 | IGHV1OR21-1 | 1.65 | 8.20.E-03 |
| SCARNA20 | 1.85 | 2.35.E-02 | LOC105369295 | 1.64 | 2.85.E-02 |
| DCHS1 | 1.83 | 1.86.E-02 | IGLV2-18 | 1.62 | 4.00.E-04 |
| POMZP3 | 1.83 | 8.20.E-03 | OXT | 1.62 | 2.02.E-02 |
| ZBTB8A | 1.79 | 4.00.E-04 | PARTICL | 1.62 | 2.73.E-02 |
| WASIR2 | 1.79 | 1.06.E-02 | PRELID3A | 1.61 | 2.90.E-03 |
| LOC105379221 | 1.78 | 1.20.E-02 | SNHG12 | 1.61 | 1.11.E-02 |
| LOC101930275 | 1.77 | 1.90.E-03 | LINC00633 | 1.61 | 4.64.E-02 |
| ZNF730 | 1.75 | 3.36.E-02 | SLC25A5-AS1 | 1.6 | 1.29.E-02 |
| DNAAF3 | 1.75 | 1.13.E-02 | KRT14 | 1.6 | 2.20.E-02 |