

Gene Ontology analysis of significantly expressed genes in asynchronously dividing MEFs

| function  | type               | Enrichment Score | Enrichment p-value | # genes in list, in group | # genes not in list, in group | GO ID   |
|---|--------------------|------------------|--------------------|---------------------------|-------------------------------|---------|
| positive regulation of G1/S transition of mitotic cell cycle                                  | biological process | 4.88839          | 0.00753351         | 2                         | 24                            | 1900087 |
| positive regulation of cell cycle G1/S phase transition                                       | biological process | 4.60994          | 0.0099524          | 2                         | 28                            | 1902808 |
| traversing start control point of mitotic cell cycle  | biological process | 4.19861          | 0.0150165          | 1                         | 2                             | 7089    |
| negative regulation of cell cycle   | biological process | 3.83493          | 0.0216028          | 5                         | 310                           | 45786   |
| positive regulation of mitotic cell cycle phase transition                                    | biological process | 3.46333          | 0.0313253          | 2                         | 53                            | 1901992 |
| positive regulation of cell cycle phase transition  | biological process | 3.30391          | 0.0367392          | 2                         | 58                            | 1901989 |
| regulation of cell cycle  | biological process | 3.1976           | 0.0408601          | 8                         | 763                           | 51726   |
| DNA damage response, signal transduction by p53 class mediator resulting in cell cycle arrest | biological process | 3.11491          | 0.0443823          | 1                         | 8                             | 6977    |