### Table S3

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| **Category** | **Function Annotation** | **DEG** |
| Lipid Metabolism | Metabolism of lipids (21, ****), fatty acids (8, ****); quantity of lipids (14, ****), acylglycerol (8, ****), diacylglycerol (3, ****), prostaglandin E2 (3, ****), testosterone (3, ****), acyl coenzyme A (2, ⇔); synthesis of lipids (14, ****), fatty acids (5, ****); modification of lipids (9, ****); transport of lipids (6, ****), fatty acids (4, ****), oleic acid (3, ****); uptake of fatty acids (3, ****). | 34 **** |
| Small Molecular Biochemestry | | Metabolic process of lipids (22, ****); metabolism of lipids (21, ****), fatty acids (8, ****); quantity of lipids (14, ****), acylglycerol (8, ****), D-glucose (7, ****), triacylglycerol (6, ****); synthesis of lipids (14, ****); transport of lipids (6, ****), fatty acids (4, ****), oleic acid (3, ****); hydrolysis of GTP (5, ****). | 49 **** |
| Cellular Growth & Proliferation | | Proliferation of cells (23, ****), tumor cell lines (10, ****), fibroblasts (5, ****), epithelial cells (4, ****); growth of cells (17, ****), tumor cell lines (9, ****); arrest in growth of cells (9, ****); induction of leukocytes (3; ****); stimulation of eukaryotic cells (3, ****). | 72 ⇔ |
| Cellular Development | | Differentiation of cell lines (18, ****), mesenchymal cells (3, ⇔); developmental disorder of cells (7, ****); adipogenesis of fibroblast cell lines (4, ****); delay in differentiation of cells (2, ****); development of bone cell lines (2, ****). | 33 **** |
| Cellular Function & Maintenance | | Polymerization of actin (5, ****); function of cytoskeleton (2, ****). | 17 **** |
| Cell Cycle | | Cell cycle progression (23, ****); cell division process of cell lines (23, ****), tumor cell lines (18, ****); cell stage of eukaryotic cells (20, ****); arrest in cell stage of cell lines (15,****), interphase of cell lines (13, ****); mitosis (11, ****). | 30 **** |
| Molecular Transport | Quantity of lipids (14, ****), acylglycerol (8, ****), D-glucose (7, ****), triacylglycerol (6, ****), diacylglycerol (3, ****), prostaglandin E2 (3, ****), testosterone (3, ****), acyl-coenzyme A (2, ⇔); transport of lipids (6, ****), fatty acids (4, ****), oleic acid (3, ****); uptake of fatty acids (3, ****). | 28 **** |
| Cell Death | | Cell death (53, ****); survival of cells (20, ****), osteocytes (3, ****). | 61 **** |