

Supplementary Table S3: Gene sets enriched in genes down-regulated by ESRP2 and Arkadia in OS-RC-2 cells.

Pre-ranked gene set enrichment analysis (GSEAPreranked) was performed with genes down-regulated by both ESRP2 and Arkadia in OS-RC-2 cells using GO biological process c5 BP gene sets in MSigDB. Gene sets with more than or equal to 1.5 NES values are shown in the list. NES: normalized enrichment score.

Gene sets	NES
1 DEPHOSPHORYLATION	1.99
2 REGULATION_OF_BINDING	1.97
3 REGULATION_OF_HYDROLASE_ACTIVITY	1.96
4 NEGATIVE_REGULATION_OF_CATALYTIC_ACTIVITY	1.96
5 REGULATION_OF_MULTICELLULAR_ORGANISMAL_PROCESS	1.94
6 MRNA_PROCESSING_GO_0006397	1.94
7 REGULATION_OF_DNA_BINDING	1.93
8 TRANSMEMBRANE_RECEPTOR_PROTEIN_TYROSINE_KINASE_SIGNALING_PATHWAY	1.92
9 COENZYME_METABOLIC_PROCESS	1.9
10 ORGAN_MORPHOGENESIS	1.87
11 SENSORY_PERCEPTION	1.86
12 MRNA_METABOLIC_PROCESS	1.85
13 AMINO_ACID_METABOLIC_PROCESS	1.85
14 ACTIN_CYTOSKELETON_ORGANIZATION_AND_BIOGENESIS	1.83
15 NEUROGENESIS	1.82
16 ALCOHOL_METABOLIC_PROCESS	1.81
17 CENTRAL_NERVOUS_SYSTEM_DEVELOPMENT	1.81
18 DEFENSE_RESPONSE	1.8
19 POSITIVE_REGULATION_OF_CELL_PROLIFERATION	1.8
20 REGULATION_OF_CELLULAR_COMPONENT_ORGANIZATION_AND_BIOGENESIS	1.79
21 COFACTOR_METABOLIC_PROCESS	1.78
22 CELLULAR_PROTEIN_CATABOLIC_PROCESS	1.78
23 NEGATIVE_REGULATION_OF_CELL_PROLIFERATION	1.78
24 RNA_SPLICING	1.78
25 RESPONSE_TO_WOUNDING	1.76
26 ACTIN_FILAMENT_BASED_PROCESS	1.76
27 PROTEIN_RNA_COMPLEX_ASSEMBLY	1.75
28 ENZYME_LINKED_RECEPTOR_PROTEIN_SIGNALING_PATHWAY	1.74
29 AMINO_ACID_AND_DERIVATIVE_METABOLIC_PROCESS	1.74
30 REGULATION_OF_CELLULAR_PROTEIN_METABOLIC_PROCESS	1.73
31 CELLULAR_CARBOHYDRATE_METABOLIC_PROCESS	1.72
32 NEGATIVE_REGULATION_OF_RNA_METABOLIC_PROCESS	1.71
33 REGULATION_OF_PROTEIN_METABOLIC_PROCESS	1.7
34 GROWTH	1.68
35 CELL_CELL_SIGNALING	1.68
36 POSITIVE_REGULATION_OF_CATALYTIC_ACTIVITY	1.67
37 PROTEIN_CATABOLIC_PROCESS	1.66
38 RESPONSE_TO ABIOTIC_STIMULUS	1.66
39 CELLULAR_MACROMOLECULE_CATABOLIC_PROCESS	1.66
40 REGULATION_OF_KINASE_ACTIVITY	1.65
41 IMMUNE_SYSTEM_PROCESS	1.65
42 RIBONUCLEOPROTEIN_COMPLEX_BIOGENESIS_AND_ASSEMBLY	1.64
43 AMINE_METABOLIC_PROCESS	1.63
44 REGULATION_OF_PROTEIN_KINASE_ACTIVITY	1.63
45 CARBOHYDRATE_METABOLIC_PROCESS	1.61
46 NITROGEN_COMPOUND_METABOLIC_PROCESS	1.61
47 REGULATION_OF_TRANSFERASE_ACTIVITY	1.6
48 CYTOSKELETON_ORGANIZATION_AND_BIOGENESIS	1.58
49 RESPONSE_TO_EXTERNAL_STIMULUS	1.57

50	NEUROLOGICAL_SYSTEM_PROCESS	1.56
51	MACROMOLECULE_CATABOLIC_PROCESS	1.54
52	POSITIVE_REGULATION_OF_METABOLIC_PROCESS	1.54
53	ANTI_APOPTOSIS	1.53
54	CELL_CYCLE_PHASE	1.53
55	BIOPOLYMER_CATABOLIC_PROCESS	1.53
56	PROTEOLYSIS	1.53
57	NEGATIVE_REGULATION_OF_NUCLEOBASENUCLEOSIDENUCLEOTIDE_AND_NUCLEIC_ACID_METABOLIC_PROCESS	1.51