

Supplementary Table S4: Gene sets enriched in genes up-regulated by ESRP2 and Arkadia in OS-RC-2 cells.

Pre-ranked gene set enrichment analysis (GSEAPreranked) was performed with genes up-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 PROTEIN_PROCESSING	2.24
2 PROTEIN_CATABOLIC_PROCESS	2.22
3 PROTEIN_IMPORT	2.17
4 TRANSMEMBRANE_RECEPTOR_PROTEIN_TYROSINE_KINASE_SIGNALING_PATH	2.17
5 NUCLEAR_IMPORT	2.15
6 GLYCOPROTEIN_METABOLIC_PROCESS	2.12
7 NEUROGENESIS	2.11
8 RESPONSE_TO_ABIOTIC_STIMULUS	2.11
9 VIRAL_REPRODUCTION	2.1
10 MEMBRANE_ORGANIZATION_AND_BIOGENESIS	2.07
11 NUCLEOCYTOPLASMIC_TRANSPORT	2.06
12 NITROGEN_COMPOUND_METABOLIC_PROCESS	2.02
13 PROTEIN_TARGETING	2.01
14 NUCLEAR_TRANSPORT	2.01
15 CELL_MIGRATION	2
16 VIRAL_REPRODUCTIVE_PROCESS	2
17 ENZYME_LINKED_RECEPTOR_PROTEIN_SIGNALING_PATHWAY	1.98
18 ANTI_APOPTOSIS	1.98
19 CELLULAR_MACROMOLECULE_CATABOLIC_PROCESS	1.97
20 BIOPOLYMER_CATABOLIC_PROCESS	1.95
21 ACTIN_FILAMENT_BASED_PROCESS	1.95
22 GENERATION_OF_PRECURSOR_METABOLITES_AND_ENERGY	1.94
23 G_PROTEIN_COUPLED_RECEPTOR_PROTEIN_SIGNALING_PATHWAY	1.91
24 REPRODUCTIVE_PROCESS	1.85
25 MACROMOLECULE_CATABOLIC_PROCESS	1.84
26 ACTIN_CYTOSKELETON_ORGANIZATION_AND_BIOGENESIS	1.79
27 INTRACELLULAR_PROTEIN_TRANSPORT	1.79
28 POSITIVE_REGULATION_OF_CATALYTIC_ACTIVITY	1.78
29 NEGATIVE_REGULATION_OF_APOPTOSIS	1.77
30 NEGATIVE_REGULATION_OF_PROGRAMMED_CELL_DEATH	1.76
31 HOMEOSTATIC_PROCESS	1.74
32 PROTEIN_TRANSPORT	1.72
33 PROTEOLYSIS	1.71
34 ORGAN_MORPHOGENESIS	1.69
35 ESTABLISHMENT_OF_PROTEIN_LOCALIZATION	1.67
36 REPRODUCTION	1.66
37 NEGATIVE_REGULATION_OF_CELL_PROLIFERATION	1.65
38 CELLULAR_CATABOLIC_PROCESS	1.65
39 NEGATIVE_REGULATION_OF_DEVELOPMENTAL_PROCESS	1.64
40 DNA_REPAIR	1.63
41 POSITIVE_REGULATION_OF_CELL_PROLIFERATION	1.62
42 CATABOLIC_PROCESS	1.62
43 IMMUNE_SYSTEM_PROCESS	1.59
44 CELL_CELL_SIGNALING	1.58
45 PROTEIN_LOCALIZATION	1.58
46 PROTEIN_AMINO_ACID_PHOSPHORYLATION	1.57
47 CYTOSKELETON_ORGANIZATION_AND_BIOGENESIS	1.53
48 MACROMOLECULE_LOCALIZATION	1.52
49 PHOSPHORYLATION	1.51

50 ANATOMICAL\_STRUCTURE\_MORPHOGENESIS  
51 NERVOUS\_SYSTEM\_DEVELOPMENT

1.51  
1.5