

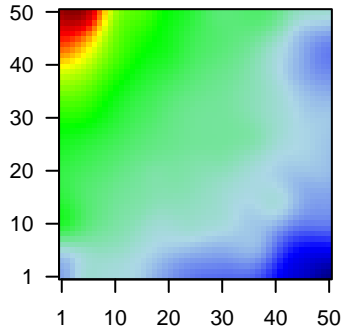
# MSC1 vs MSC3

## Global Summary

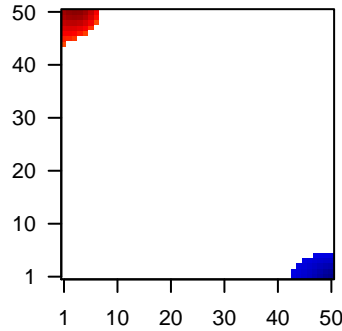
%DE = 0.15  
 # genes with fdr < 0.2 = 1602 ( 976 + / 626 - )  
 # genes with fdr < 0.1 = 1148 ( 745 + / 403 - )  
 # genes with fdr < 0.05 = 973 ( 659 + / 314 - )  
 # genes with fdr < 0.01 = 620 ( 466 + / 154 - )  
  
 # genes in genesets = 14839

<FC> = 0  
 <shrinkage-t> = 0  
 <p-value> = 0.11  
 <fdr> = 0.85

Profile



Regulated Spots



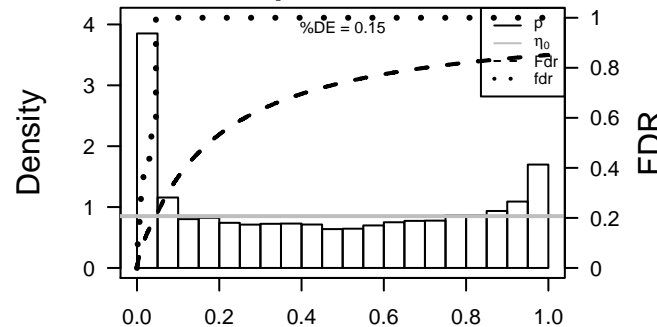
## Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	ANXA1	-1.34	2e-16	4e-14	50 x 1 annexin A1 [Source:HGNC Symbol;Acc:HGNC:533]
2	ARHGAP8	1.13	2e-16	4e-14	1 x 43 Rho GTPase activating protein 8 [Source:HGNC Symbol;Acc:HGNC:1580]
3	ASF1B	1.62	2e-16	4e-14	4 x 50 anti-silencing function 1B histone chaperone [Source:HGNC Symbol;Acc:HGNC:1580]
4	ATAD2	1.01	2e-16	4e-14	2 x 50 ATPase family, AAA domain containing 2 [Source:HGNC Symbol;Acc:HGNC:1580]
5	BIRC5	1.05	2e-16	4e-14	6 x 50 baculoviral IAP repeat containing 5 [Source:HGNC Symbol;Acc:HGNC:1580]
6	CCNB2	1.05	2e-16	4e-14	6 x 50 cyclin B2 [Source:HGNC Symbol;Acc:HGNC:1580]
7	CCNE2	0.92	2e-16	4e-14	2 x 50 cyclin E2 [Source:HGNC Symbol;Acc:HGNC:1590]
8	CDC45	0.89	2e-16	4e-14	1 x 50 cell division cycle 45 [Source:HGNC Symbol;Acc:HGNC:1735]
9	CDC6	1.22	2e-16	4e-14	1 x 50 cell division cycle 6 [Source:HGNC Symbol;Acc:HGNC:1744]
10	CDK1	1.53	2e-16	4e-14	5 x 50 cyclin-dependent kinase 1 [Source:HGNC Symbol;Acc:HGNC:1580]
11	CDKN3	1.47	2e-16	4e-14	6 x 50 cyclin-dependent kinase inhibitor 3 [Source:HGNC Symbol;Acc:HGNC:1580]
12	CENPF	1.09	2e-16	4e-14	6 x 50 centromere protein F, 350/400kDa [Source:HGNC Symbol;Acc:HGNC:294]
13	CENPK	1.1	2e-16	4e-14	3 x 50 centromere protein K [Source:HGNC Symbol;Acc:HGNC:294]
14	CENPN	1.18	2e-16	4e-14	4 x 50 centromere protein N [Source:HGNC Symbol;Acc:HGNC:308]
15	CENPU	1.18	2e-16	4e-14	2 x 50 centromere protein U [Source:HGNC Symbol;Acc:HGNC:213]
16	CENPW	1.04	2e-16	4e-14	6 x 50 centromere protein W [Source:HGNC Symbol;Acc:HGNC:214]
17	CHCHD6	0.9	2e-16	4e-14	1 x 43 coiled-coil-helix-coiled-coil-helix domain containing 6 [Source:HGNC Symbol;Acc:HGNC:199]
18	CKB	1.04	2e-16	4e-14	2 x 47 creatine kinase, brain [Source:HGNC Symbol;Acc:HGNC:199]
19	CKS2	1.05	2e-16	4e-14	5 x 50 CDC28 protein kinase regulatory subunit 2 [Source:HGNC Symbol;Acc:HGNC:19715]
20	CLSPN	0.91	2e-16	4e-14	1 x 50 claspin [Source:HGNC Symbol;Acc:HGNC:19715]

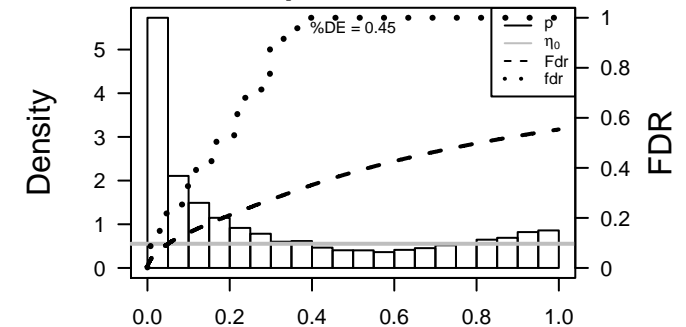
## Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	40.62	0	305	GSEA C2DUTERTRE_ESTRADIOL_RESPONSE_24HR_UP
2	40.04	0	142	Glio WILLSCHER_GBM_Verhaak-CL_up (C)
3	39.54	0	242	GSEA C2KOBAYASHI_EGFR_SIGNALING_24HR_DN
4	38.69	0	550	GSEA C2GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
5	36.24	0	139	GSEA C2ROSTY_CERVICAL_CANCER_PROLIFERATION_CLUSTER
6	35.34	0	197	HM HALLMARK_E2F_TARGETS
7	34.78	0	1192	GSEA C2KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
8	34.55	0	16	Cancer SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
9	34.13	0	267	GSEA C2ZHANG_TLX_TARGETS_60HR_DN
10	32.87	0	436	GSEA C2SHEDDEN_LUNG_CANCER_POOR_SURVIVAL_A6
11	32.52	0	81	GSEA C2GRAHAM_NORMAL QUIESCENT_VS_NORMAL_DIVIDING_DN
12	32.48	0	700	GSEA C2MARSON_BOUND_BY_E2F4_UNSTIMULATED
13	31.95	0	145	GSEA C2CHANG_CYCLING_GENES
14	30.92	0	96	GSEA C2CROONQUIST_IL6_DEPRIVATION_DN
15	30.33	0	390	GSEA C2PUJANA_BRCA2_PCC_NETWORK
16	29.99	0	124	GSEA C2ZHOU_CELL_CYCLE_GENES_IN_IR_RESPONSE_24HR
17	29.95	0	50	GSEA C2SHIDA_E2F_TARGETS
18	29.95	0	110	GSEA C2WHITEFORD_PEDIATRIC_CANCER_MARKERS
19	29.9	0	162	GSEA C2GRAHAM_CML_DIVIDING_VS_NORMAL QUIESCENT_UP
20	29.84	0	327	GSEA C2BLUM_RESPONSE_TO_SALIRASIB_DN
<i>Underexpressed</i>				
1	-11.8	0e+00	472	GSEA C2DUTERTRE_ESTRADIOL_RESPONSE_24HR_DN
2	-11.24	0e+00	302	GSEA C2KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_DN
3	-11.05	0e+00	3396	LymphomaOPP_Repressed
4	-10.92	0e+00	594	GSEA C2WONG_ADULT_TISSUE_STEM_MODULE
5	-9.72	2e-05	749	GSEA C2CUI_TCF21_TARGETS_2_DN
6	-9.63	2e-05	2188	LymphomaOPP_Poised_promoter
7	-9.36	3e-05	286	GSEA C2PASINI_SUZ12_TARGETS_DN
8	-9.12	3e-05	930	GSEA C2NUYTEN_EZH2_TARGETS_UP
9	-8.73	3e-05	784	GSEA C2BUYTAERT_PHOTODYNAMIC_THERAPY_STRESS_UP
10	-8.51	6e-05	385	GSEA C2REN_ALVEOLAR_RHABDOMYOSARCOMA_DN
11	-8.35	7e-05	616	GSEA C2NABA_MATRISOME
12	-8.26	7e-05	212	LymphomaENZ_Stromal signature 1
13	-8.23	7e-05	730	GSEA C2RODRIGUES_THYROID_CARCINOMA_POORLY_DIFFERENTIATED
14	-7.78	1e-04	245	GSEA C2WANG_SMARCE1_TARGETS_UP
15	-7.61	2e-04	3088	CC plasma membrane
16	-7.61	2e-04	396	GSEA C2JOHNSTONE_PARVB_TARGETS_3_UP
17	-7.52	2e-04	618	GSEA C2GOZGIT_ESR1_TARGETS_DN
18	-7.49	2e-04	683	GSEA C2KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_UP
19	-7.44	2e-04	2185	Brain Fetal_TssA
20	-7.4	2e-04	136	GSEA C2PODAR_RESPONSE_TO_ADAPHOSTIN_UP

p-values



p-values



# MSC1 vs MSC3

## Local Summary

%DE = 1  
 # metagenes = 36  
 # genes = 516  
 # genes in genesets = 514  
  
 # genes with  $fdr < 0.1$  = 513 ( 513 + / 0 -)  
 # genes with  $fdr < 0.05$  = 513 ( 513 + / 0 -)  
 # genes with  $fdr < 0.01$  = 500 ( 500 + / 0 -)

<r> metagenes = 0.79

<r> genes = 0.62

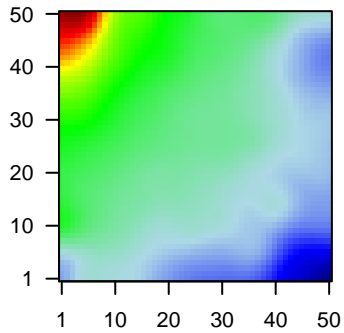
<FC> = 0.6

<shrinkage-t> = 3.08

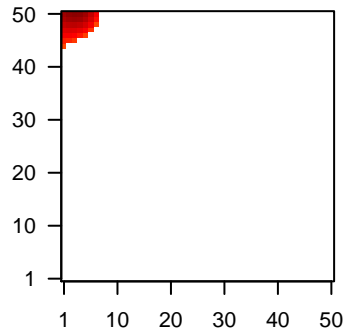
<p-value> = 0

<fdr> = 0.06

### Profile



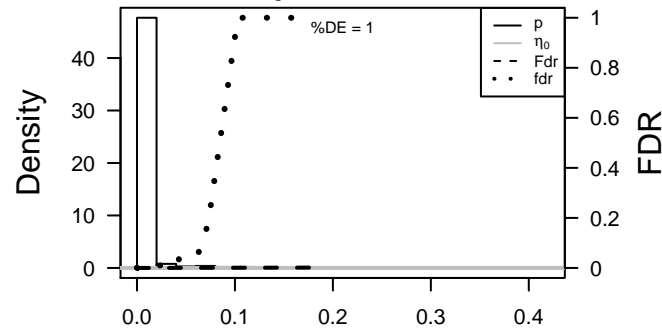
### Spot



## Local Genelist

Rank	ID	log(FC)	p-value	fdr	Description
1	ASF1B	1.62	2e-16	6e-18	4 x 50 anti-silencing function 1B histone chaperone [Source:HGNC
2	ATAD2	1.01	2e-16	6e-18	2 x 50 ATPase family, AAA domain containing 2 [Source:HGNC Sym
3	BIRC5	1.05	2e-16	6e-18	6 x 50 baculoviral IAP repeat containing 5 [Source:HGNC Symbol;A
4	CCNB2	1.05	2e-16	6e-18	6 x 50 cyclin B2 [Source:HGNC Symbol;Acc:HGNC:1580]
5	CCNE2	0.92	2e-16	6e-18	2 x 50 cyclin E2 [Source:HGNC Symbol;Acc:HGNC:1590]
6	CDC45	0.89	2e-16	6e-18	1 x 50 cell division cycle 45 [Source:HGNC Symbol;Acc:HGNC:1736]
7	CDC6	1.22	2e-16	6e-18	1 x 50 cell division cycle 6 [Source:HGNC Symbol;Acc:HGNC:1744]
8	CDK1	1.53	2e-16	6e-18	5 x 50 cyclin-dependent kinase 1 [Source:HGNC Symbol;Acc:HGNC
9	CDKN3	1.47	2e-16	6e-18	6 x 50 cyclin-dependent kinase inhibitor 3 [Source:HGNC Symbol;A
10	CENPF	1.09	2e-16	6e-18	6 x 50 centromere protein F, 350/400kDa [Source:HGNC Symbol;Ac
11	CENPK	1.1	2e-16	6e-18	3 x 50 centromere protein K [Source:HGNC Symbol;Acc:HGNC:294
12	CENPN	1.18	2e-16	6e-18	4 x 50 centromere protein N [Source:HGNC Symbol;Acc:HGNC:308
13	CENPU	1.18	2e-16	6e-18	2 x 50 centromere protein U [Source:HGNC Symbol;Acc:HGNC:213
14	CENPW	1.04	2e-16	6e-18	6 x 50 centromere protein W [Source:HGNC Symbol;Acc:HGNC:214
15	CKB	1.04	2e-16	6e-18	2 x 47 creatine kinase, brain [Source:HGNC Symbol;Acc:HGNC:199
16	CKS2	1.05	2e-16	6e-18	5 x 50 CDC28 protein kinase regulatory subunit 2 [Source:HGNC S
17	CLSPN	0.91	2e-16	6e-18	1 x 50 claspin [Source:HGNC Symbol;Acc:HGNC:19715]
18	DTL	1.3	2e-16	6e-18	1 x 50 denticleless E3 ubiquitin protein ligase homolog (Drosophila)
19	ESCO2	0.92	2e-16	6e-18	4 x 50 establishment of sister chromatid cohesion N-acetyltransfera
20	EXO1	1.31	2e-16	6e-18	1 x 50 exonuclease 1 [Source:HGNC Symbol;Acc:HGNC:3511]

### p-values



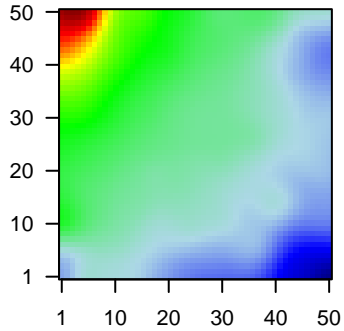
# MSC1 vs MSC3

## Local Summary

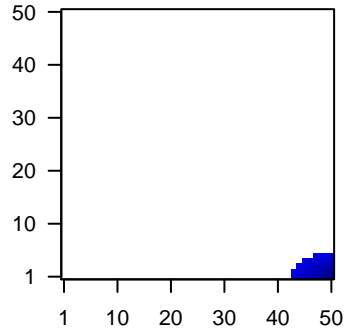
%DE = 0.98  
 # metagenes = 33  
 # genes = 451  
 # genes in genesets = 451  
  
 # genes with  $fdr < 0.1$  = 429 ( 0 + / 429 -)  
 # genes with  $fdr < 0.05$  = 421 ( 0 + / 421 -)  
 # genes with  $fdr < 0.01$  = 349 ( 0 + / 349 -)

$\langle r \rangle$  metagenes = 0.97  
 $\langle r \rangle$  genes = 0.71  
  
 $\langle FC \rangle = -0.36$   
 $\langle \text{shrinkage-t} \rangle = -1.85$   
 $\langle p\text{-value} \rangle = 0$   
 $\langle fdr \rangle = 0.31$

Profile



Spot



## Local Genelist

Rank	ID	log(FC)	p-value	fdr	Description
1	ANXA1	-1.34	2e-16	3e-16	50 x 1 annexin A1 [Source:HGNC Symbol;Acc:HGNC:533]
2	CRYAB	-1.17	2e-16	3e-16	50 x 1 crystallin, alpha B [Source:HGNC Symbol;Acc:HGNC:2389]
3	EDIL3	-1.03	2e-16	3e-16	50 x 1 EGF-like repeats and discoidin I-like domains 3 [Source:HGI
4	MYOF	-1.05	2e-16	3e-16	50 x 1 myoferlin [Source:HGNC Symbol;Acc:HGNC:3656]
5	PLK2	-0.97	2e-16	3e-16	50 x 1 polo-like kinase 2 [Source:HGNC Symbol;Acc:HGNC:19699]
6	PTPRM	-0.94	2e-16	3e-16	50 x 1 protein tyrosine phosphatase, receptor type, M [Source:HGN
7	TMEM45A	-0.96	2e-16	3e-16	50 x 1 transmembrane protein 45A [Source:HGNC Symbol;Acc:HG
8	SNAP23	-0.75	1e-14	1e-11	50 x 1 synaptosomal-associated protein, 23kDa [Source:HGNC Syr
9	F2R	-0.86	1e-12	4e-11	50 x 1 coagulation factor II (thrombin) receptor [Source:HGNC Synt
10	CALD1	-0.62	9e-12	4e-11	50 x 1 caldesmon 1 [Source:HGNC Symbol;Acc:HGNC:1441]
11	LIMCH1	-0.83	9e-12	1e-10	50 x 1 LIM and calponin homology domains 1 [Source:HGNC Symb
12	SPOCK1	-0.77	3e-11	1e-10	50 x 1 sparco/osteonectin, cwcv and kazal-like domains proteoglycar
13	HIST1H2AC	-0.82	3e-11	2e-10	50 x 1 histone cluster 1, H2ac [Source:HGNC Symbol;Acc:HGNC:47
14	MBNL2	-0.72	5e-11	2e-10	50 x 1 muscleblind-like splicing regulator 2 [Source:HGNC Symbol;]
15	SAMD4A	-0.71	7e-11	1e-09	49 x 1 sterile alpha motif domain containing 4A [Source:HGNC Symb
16	RHOBTB3	-0.74	3e-10	1e-09	50 x 1 Rho-related BTB domain containing 3 [Source:HGNC Symbc
17	CDKN1A	-0.8	3e-10	1e-09	50 x 1 cyclin-dependent kinase inhibitor 1A (p21, Cip1) [Source:HG
18	SPARC	-0.61	4e-10	4e-09	50 x 2 secreted protein, acidic, cysteine-rich (osteonectin) [Source:]
19	THBS1	-0.74	8e-10	5e-09	50 x 1 thrombospondin 1 [Source:HGNC Symbol;Acc:HGNC:11785]
20	MATN2	-0.73	1e-09	6e-09	50 x 1 matrilin 2 [Source:HGNC Symbol;Acc:HGNC:6908]

p-values

