

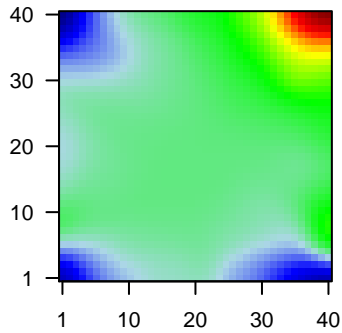
# MLH1\_cancerHNPCC

## Global Summary

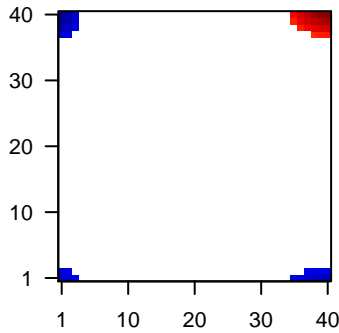
%DE = 0.44  
 # genes with fdr < 0.2 = 5345 ( 1243 + / 4102 - )  
 # genes with fdr < 0.1 = 3939 ( 685 + / 3254 - )  
 # genes with fdr < 0.05 = 2712 ( 307 + / 2405 - )  
 # genes with fdr < 0.01 = 1120 ( 26 + / 1094 - )  
 # genes in genesets = 18990

<FC> = 0  
 <t-score> = -5.44  
 <p-value> = 0  
 <fdr> = 0.56

Profile



Regulated Spots



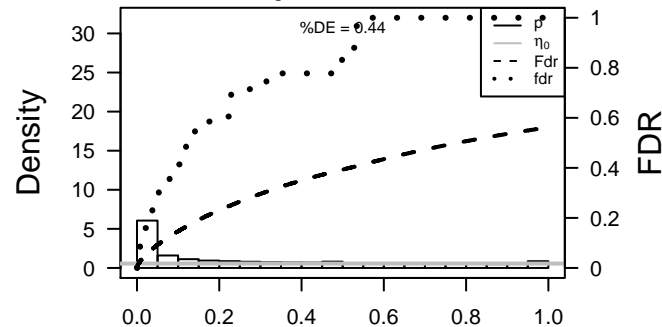
## Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	ENSG00000001	-0.04	0e+00	1e-11	25 x 1 membrane-spanning 4-domains, subfamily A, member 10 [S
2	ENSG00000002	-0.01	1e-15	3e-10	22 x 4 membrane-spanning 4-domains, subfamily A, member 18 [S
3	ENSG00000001	0	2e-14	9e-09	19 x 24 MAS-related GPR, member D [Source:HGNC Symbol;Acc:H
4	ENSG00000002	0	1e-12	9e-09	23 x 12 chromosome 11 open reading frame 94 [Source:HGNC Symt
5	ENSG00000002	0	2e-12	1e-08	21 x 14
6	ENSG00000001	0	3e-12	8e-08	20 x 14 calcium binding protein 2 [Source:HGNC Symbol;Acc:HGNC:
7	ENSG00000001	-0.01	2e-11	8e-08	5 x 27 CD300 molecule-like family member g [Source:HGNC Symb
8	ENSG00000001	-0.01	2e-11	8e-08	31 x 11 surfactant protein C [Source:HGNC Symbol;Acc:HGNC:1080:
9	ENSG00000001	-0.13	2e-11	8e-08	36 x 1 claudin 8 [Source:HGNC Symbol;Acc:HGNC:2050]
10	ENSG00000002	-0.01	3e-11	1e-07	17 x 27
11	ENSG00000001	-0.02	5e-11	1e-07	2 x 29 cell death-inducing DFFA-like effector a [Source:HGNC Sym
12	ENSG00000001	0	6e-11	1e-07	25 x 19 neural EGFL like 1 [Source:HGNC Symbol;Acc:HGNC:7750]
13	ENSG00000001	0	6e-11	5e-07	26 x 16 olfactory receptor, family 5, subfamily I, member 1 [Source:HK
14	ENSG00000001	0	1e-10	5e-07	17 x 19 glycine-N-acetyltransferase [Source:HGNC Symbol;Acc:HGNC:
15	ENSG00000001	0	1e-10	5e-07	19 x 16 G protein-coupled receptor 152 [Source:HGNC Symbol;Acc:I
16	ENSG00000001	0	2e-10	8e-07	24 x 15 secretoglobin, family 1A, member 1 (uteroglobin) [Source:HG
17	ENSG00000001	-0.12	3e-10	8e-07	25 x 1 solute carrier family 6 (neutral amino acid transporter), memb
18	ENSG00000000	-0.05	3e-10	1e-06	25 x 1 apolipoprotein B [Source:HGNC Symbol;Acc:HGNC:603]
19	ENSG00000001	-0.01	5e-10	1e-06	13 x 35 proprotein convertase subtilisin/kexin type 2 [Source:HGNC S
20	ENSG00000001	0	6e-10	1e-06	21 x 17 galactose-3-O-sulfotransferase 3 [Source:HGNC Symbol;Ac

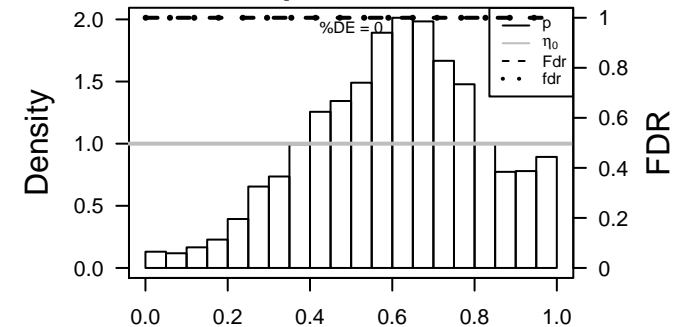
## Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	2.6	0.01	10475	Colon Cancer Colon
2	2.42	0.01	9930	Colon Cancer Colon
3	2.31	0.01	11968	Colon Cancer Wk_Colon
4	2.27	0.01	9390	Colon Cancer Wk_Colon
5	2.21	0.01	10239	Brain Overlap_fetal_midbrain_ReprPC
6	2.19	0.01	9923	Brain Overlap_fetal_midbrain_K9K27me3
7	2.07	0.02	8358	Lymphoma OPP_Active_promoter
8	2.03	0.02	8123	Colon Cancer Colon
9	1.96	0.02	7491	Lymphoma OPP_Txn_elongation
10	1.95	0.02	9470	Colon Cancer Colon
11	1.78	0.02	8147	Lymphoma OPP_Weak_promoter
12	1.62	0.02	5643	Lymphoma OPP_Txn_transition
13	1.51	0.03	6761	Colon Cancer Colon
14	1.5	0.03	7592	Lymphoma OPP_Strong_enhancer
15	1.49	0.03	6320	Brain Overlap_fetal_midbrain_HetRpts
16	1.47	0.03	7202	TF ICGC_Runx3_targets
17	1.46	0.03	6313	TF ICGC_Pou2_targets
18	1.45	0.03	6322	TF ICGC_Pol2_targets
19	1.43	0.03	6862	TF ICGC_Elf1_targets
20	1.4	0.03	5173	TF ICGC_Taf1_targets
<i>Underexpressed</i>				
1	-16.31	3e-04	67	GSEA C2MCMURRAY_TP53_HRAS_COOPERATION_RESPONSE_DN
2	-5.94	2e-03	1172	Chr Chr 11
3	-5.45	3e-03	641	GSEA C2FEVR_CTNNB1_TARGETS_UP
4	-5.11	3e-03	759	GSEA C2MARTENS_TRETINOIN_RESPONSE_UP
5	-4.8	3e-03	805	Brain Mid_Frontal_Lobe_EnhG
6	-4.34	4e-03	940	Brain Mid_Frontal_Lobe_Enh
7	-3.65	6e-03	1105	GSEA C2BRUIJS_UVC_RESPONSE_LATE
8	-3.56	6e-03	2947	Colon Cancer PCWk_Colon
9	-3.34	7e-03	3406	Colon Cancer PC_Colon
10	-3.1	8e-03	2041	Colon Cancer PC_Colon
11	-2.98	8e-03	3064	Glio Hopp_Sturm_GBM_Epi3_no_zentr_2_adult_UP_G34_DN
12	-2.89	9e-03	4052	CC integral component of membrane
13	-2.62	1e-02	5285	Toxic LU_BPDE_0.005 DN
14	-2.27	1e-02	5039	Lymphoma OPP_Repressed
15	-1.96	2e-02	4879	Colon Cancer Colon
16	-1.92	2e-02	4327	Colon Cancer Wk2_Colon
17	-1.42	3e-02	154	GSEA C2NIKOLSKY_BREAST_CANCER_11Q12_Q14_AMPLICON
18	-1.41	3e-02	91	Lifestyle DUMEAUX_Smoking enriched genes
19	-1.2	4e-02	552	Brain Fetal_Tx
20	-1.11	5e-02	262	GSEA C2SABATES_COLORECTAL_ADENOMA_DN

p-values



p-values



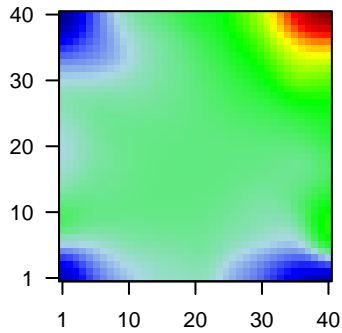
# MLH1\_cancerHNPCC

## Local Summary

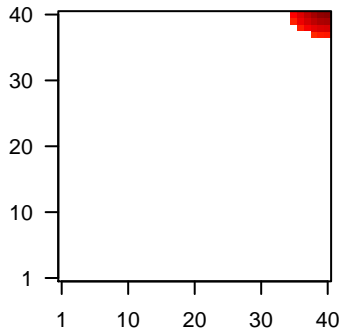
%DE = 0.99  
 # metagenes = 20  
 # genes = 414  
 # genes in genesets = 408  
  
 # genes with  $fdr < 0.1$  = 407 ( 407 + / 0 - )  
 # genes with  $fdr < 0.05$  = 394 ( 394 + / 0 - )  
 # genes with  $fdr < 0.01$  = 366 ( 366 + / 0 - )

$\langle r \rangle$  metagenes = 0.98  
 $\langle r \rangle$  genes = 0.76  
  
 $\langle FC \rangle$  = 0.17  
 $\langle t\text{-score} \rangle$  = 4.51  
 $\langle p\text{-value} \rangle$  = 0.02  
 $\langle fdr \rangle$  = 0.22

Profile



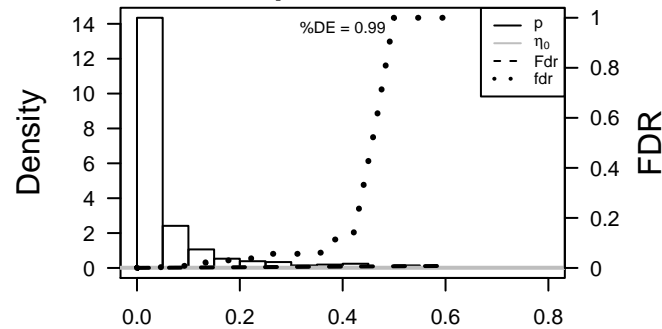
Spot



## Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	ENSG0000001	0.16	4e-06	5e-05	36 x 40 dyskeratosis congenita 1, dyskerin [Source:HGNC Symbol;Ac
2	ENSG0000002	0.15	3e-05	5e-05	40 x 40 Uncharacterized protein; cDNA FLJ60124, highly similar to M
3	ENSG0000001	0.17	4e-05	5e-05	40 x 40 leucine rich repeat containing 59 [Source:HGNC Symbol;Acc
4	ENSG0000001	0.14	4e-05	5e-05	39 x 39 mitochondrial ribosomal protein L37 [Source:HGNC Symbol;#
5	ENSG0000001	0.13	5e-05	1e-04	35 x 40 chaperonin containing TCP1, subunit 6A (zeta 1) [Source:HG
6	ENSG0000001	0.13	2e-04	1e-04	37 x 40 proliferation-associated 2G4, 38kDa [Source:HGNC Symbol;
7	ENSG0000001	0.13	2e-04	1e-04	40 x 39 solute carrier family 25 (mitochondrial carrier; dicarboxylate tr
8	ENSG0000001	0.19	2e-04	1e-04	37 x 40 sigma non-opioid intracellular receptor 1 [Source:HGNC Syrr
9	ENSG0000000	0.12	2e-04	1e-04	40 x 39 gamma-glutamylcyclotransferase [Source:HGNC Symbol;Acc
10	ENSG0000001	0.08	2e-04	1e-04	39 x 37 Ran GTPase activating protein 1 [Source:HGNC Symbol;Acc
11	ENSG0000001	0.2	2e-04	2e-04	39 x 40 protein disulfide isomerase family A, member 3 [Source:HGNC
12	ENSG0000001	0.11	3e-04	2e-04	40 x 39 Tu translation elongation factor, mitochondrial [Source:HGNC
13	ENSG0000000	0.13	4e-04	2e-04	40 x 39 mitochondrial ribosomal protein S34 [Source:HGNC Symbol;#
14	ENSG0000001	0.33	4e-04	2e-04	38 x 40 ribosomal protein S2 [Source:HGNC Symbol;Acc:HGNC:1041
15	ENSG0000000	0.12	5e-04	2e-04	40 x 39 baculoviral IAP repeat containing 5 [Source:HGNC Symbol;A
16	ENSG0000001	0.29	5e-04	2e-04	40 x 40 ribosomal protein L22-like 1 [Source:HGNC Symbol;Acc:HGI
17	ENSG0000001	0.11	5e-04	2e-04	40 x 38 forkhead box M1 [Source:HGNC Symbol;Acc:HGNC:3818]
18	ENSG0000001	0.15	6e-04	2e-04	39 x 39 ribophorin I [Source:HGNC Symbol;Acc:HGNC:10381]
19	ENSG0000001	0.17	6e-04	2e-04	38 x 40 regulator of chromosome condensation 1 [Source:HGNC Syn
20	ENSG0000001	0.13	7e-04	2e-04	36 x 38 protein phosphatase, Mg2+/Mn2+ dependent, 1G [Source:HC

p-values



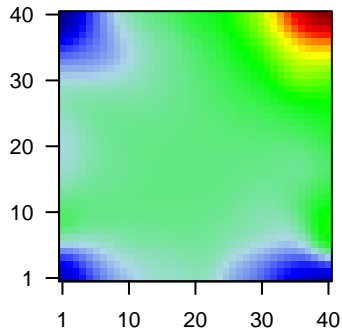
# MLH1\_cancerHNPCC

## Local Summary

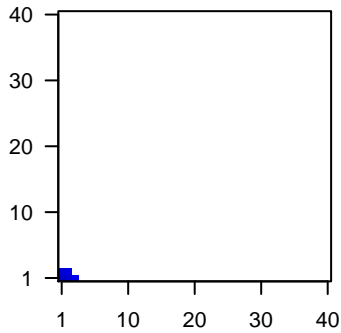
%DE = 0.94  
 # metagenes = 5  
 # genes = 158  
 # genes in genesets = 154  
  
 # genes with  $fdr < 0.1$  = 127 ( 0 + / 127 -)  
 # genes with  $fdr < 0.05$  = 125 ( 0 + / 125 -)  
 # genes with  $fdr < 0.01$  = 98 ( 0 + / 98 -)

<r> metagenes = 1  
 <r> genes = 0.87  
  
 <FC> = -0.09  
 <t-score> = -6.24  
 <p-value> = 0.01  
 <fdr> = 0.22

Profile



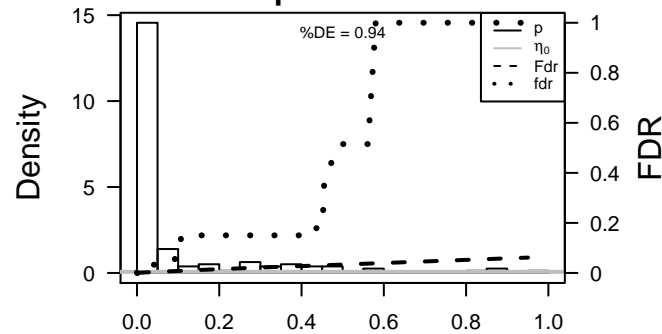
Spot



## Local Genelist

Rank	ID	log(FC)	p-value	fdr	Description
1	ENSG0000001	-0.08	2e-05	1e-04	1 x 1 CD1c molecule [Source:HGNC Symbol;Acc:HGNC:1636]
2	ENSG0000001	-0.08	6e-05	1e-04	1 x 1 Fc receptor-like A [Source:HGNC Symbol;Acc:HGNC:18504]
3	ENSG0000001	-0.31	7e-05	1e-04	1 x 1 clusterin [Source:HGNC Symbol;Acc:HGNC:2095]
4	ENSG0000001	-0.06	8e-05	1e-04	2 x 1 interleukin 16 [Source:HGNC Symbol;Acc:HGNC:5980]
5	ENSG0000001	-0.05	8e-05	1e-04	2 x 2 tumor necrosis factor receptor superfamily, member 13C [Sou
6	ENSG0000001	-0.05	9e-05	1e-04	2 x 2 family with sequence similarity 65, member B [Source:HGNC
7	ENSG0000002	-0.12	1e-04	1e-04	3 x 1 Spi-B transcription factor (Spi-1/PU.1 related) [Source:HGNC
8	ENSG0000001	-0.07	1e-04	1e-04	1 x 1 B-cell scaffold protein with ankyrin repeats 1 [Source:HGNC
9	ENSG0000002	-0.1	1e-04	1e-04	1 x 1 major histocompatibility complex, class II, DO beta [Source:H
10	ENSG0000001	-0.2	1e-04	1e-04	1 x 1 pre-B lymphocyte 3 [Source:HGNC Symbol;Acc:HGNC:1271]
11	ENSG0000001	-0.13	1e-04	1e-04	1 x 1 chemokine (C-C motif) receptor 7 [Source:HGNC Symbol;Ac
12	ENSG0000001	-0.09	1e-04	1e-04	1 x 2 Ras association (RalGDS/AF-6) domain family member 2 [S
13	ENSG0000001	-0.07	1e-04	2e-04	3 x 1 TBC1 domain family, member 10C [Source:HGNC Symbol;Ac
14	ENSG0000001	-0.08	2e-04	2e-04	1 x 2 GTPase, IMAP family member 5 [Source:HGNC Symbol;Acc:
15	ENSG0000001	-0.11	2e-04	2e-04	1 x 1 phosphoinositide-3-kinase interacting protein 1 [Source:HG
16	ENSG0000001	-0.06	2e-04	2e-04	1 x 2 RCSD domain containing 1 [Source:HGNC Symbol;Acc:HGNC
17	ENSG0000001	-0.06	2e-04	2e-04	2 x 2 chemokine (C-X-C motif) receptor 5 [Source:HGNC Symbol;
18	ENSG0000002	-0.1	3e-04	2e-04	1 x 1 G-protein signaling modulator 3 [Source:HGNC Symbol;Acc:
19	ENSG0000000	-0.05	3e-04	2e-04	3 x 1 TRAF3 interacting protein 3 [Source:HGNC Symbol;Acc:HGNC
20	ENSG0000001	-0.14	3e-04	2e-04	1 x 1 complement component (3d/Epstein Barr virus) receptor 2 [S

p-values



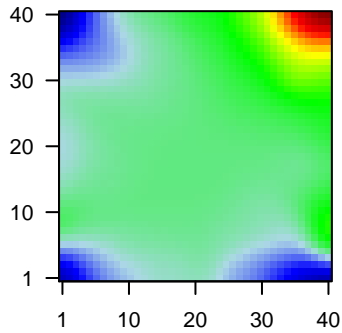
# MLH1\_cancerHNPCC

## Local Summary

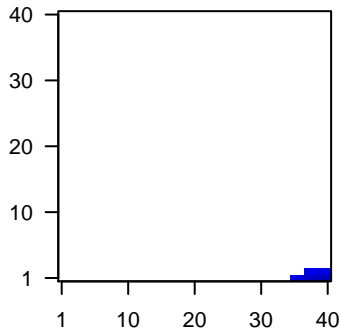
%DE = 0.69  
 # metagenes = 10  
 # genes = 239  
 # genes in genesets = 234  
  
 # genes with  $fdr < 0.1$  = 136 ( 2 + / 134 -)  
 # genes with  $fdr < 0.05$  = 129 ( 1 + / 128 -)  
 # genes with  $fdr < 0.01$  = 83 ( 0 + / 83 -)

$\langle r \rangle$  metagenes = 0.95  
 $\langle r \rangle$  genes = 0.5  
 $\langle FC \rangle$  = -0.17  
 $\langle t\text{-score} \rangle$  = -8.71  
 $\langle p\text{-value} \rangle$  = 0.02  
 $\langle fdr \rangle$  = 0.35

Profile



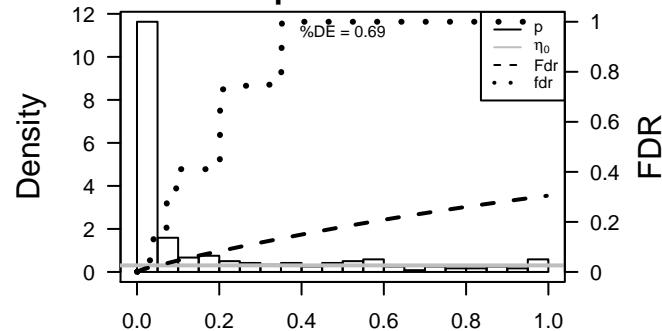
Spot



## Local Genelist

Rank	ID	log(FC)	p-value	fdr	Description
1	ENSG00000001	-0.13	2e-11	3e-06	36 x 1 claudin 8 [Source:HGNC Symbol;Acc:HGNC:2050]
2	ENSG00000001	-0.09	4e-08	1e-05	35 x 1 ATP-binding cassette, sub-family G (WHITE), member 2 (Jur)
3	ENSG00000001	-0.09	2e-07	8e-05	36 x 1
4	ENSG00000001	-0.44	1e-06	2e-04	40 x 1 carbonic anhydrase I [Source:HGNC Symbol;Acc:HGNC:136]
5	ENSG00000001	-0.14	6e-06	2e-04	36 x 1 chromosome 2 open reading frame 88 [Source:HGNC Symbc
6	ENSG00000001	-0.26	7e-06	2e-04	40 x 1 transmembrane and immunoglobulin domain containing 1 [Sc
7	ENSG00000001	-0.15	1e-05	2e-04	37 x 1 endothelin 3 [Source:HGNC Symbol;Acc:HGNC:3178]
8	ENSG00000001	-0.37	1e-05	3e-04	40 x 1 aldo-keto reductase family 1, member B10 (aldose reductase
9	ENSG00000001	-0.41	2e-05	3e-04	40 x 1 zymogen granule protein 16 [Source:HGNC Symbol;Acc:HGNC:17106]
10	ENSG00000001	-0.42	2e-05	3e-04	40 x 1 calcineurin-like EF-hand protein 2 [Source:HGNC Symbol;Acc:HGNC:17106]
11	ENSG00000001	-0.18	3e-05	3e-04	37 x 1 UDP glucuronosyltransferase 2 family, polypeptide B15 [Sour
12	ENSG00000001	-0.1	3e-05	8e-04	36 x 1 bestrophin 4 [Source:HGNC Symbol;Acc:HGNC:17106]
13	ENSG00000000	-0.23	5e-05	8e-04	38 x 1 cadherin-related family member 2 [Source:HGNC Symbol;Acc:HGNC:17106]
14	ENSG00000001	-0.47	6e-05	8e-04	40 x 1 proline-rich acidic protein 1 [Source:HGNC Symbol;Acc:HGNC:17106]
15	ENSG00000001	-0.11	6e-05	9e-04	35 x 1 solute carrier family 17, member 4 [Source:HGNC Symbol;Acc:HGNC:17106]
16	ENSG00000001	-0.19	8e-05	9e-04	38 x 1 protein kinase (cAMP-dependent, catalytic) inhibitor beta [So
17	ENSG00000001	-0.08	1e-04	9e-04	36 x 1 otopetrin 2 [Source:HGNC Symbol;Acc:HGNC:19657]
18	ENSG00000000	-0.37	1e-04	9e-04	40 x 1 membrane-spanning 4-domains, subfamily A, member 12 [S
19	ENSG00000001	-0.17	1e-04	9e-04	35 x 1 UDP-glucose pyrophosphorylase 2 [Source:HGNC Symbol;Acc:HGNC:17106]
20	ENSG00000001	-0.15	2e-04	9e-04	36 x 1 cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4) [Sc

p-values



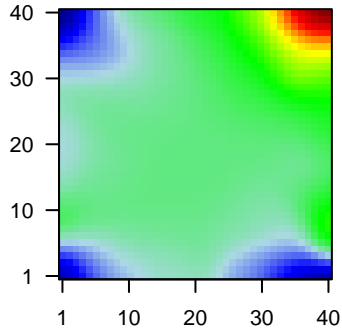
# MLH1\_cancerHNPCC

## Local Summary

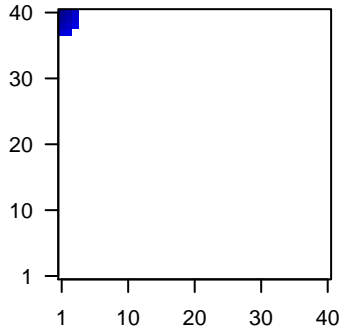
%DE = 0.92  
 # metagenes = 11  
 # genes = 211  
 # genes in genesets = 209  
  
 # genes with  $fdr < 0.1$  = 162 ( 0 + / 162 -)  
 # genes with  $fdr < 0.05$  = 157 ( 0 + / 157 -)  
 # genes with  $fdr < 0.01$  = 123 ( 0 + / 123 -)

$\langle r \rangle$  metagenes = 1  
 $\langle r \rangle$  genes = 0.87  
  
 $\langle FC \rangle$  = -0.1  
 $\langle t\text{-score} \rangle$  = -11.77  
 $\langle p\text{-value} \rangle$  = 0  
 $\langle fdr \rangle$  = 0.23

Profile



Spot



## Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	ENSG00000000	-0.07	6e-09	2e-06	3 x 40 ATPase, Na+/K+ transporting, alpha 2 polypeptide [Source:HGNC Symbol;Acc:HGNC:37155]
2	ENSG00000002	-0.2	1e-07	2e-06	1 x 38 MT-RNR2-like 1 [Source:HGNC Symbol;Acc:HGNC:37155]
3	ENSG00000001	-0.11	2e-07	4e-06	1 x 40 perilipin 4 [Source:HGNC Symbol;Acc:HGNC:29393]
4	ENSG00000001	-0.07	5e-07	4e-06	3 x 40 butyrylcholinesterase [Source:HGNC Symbol;Acc:HGNC:983]
5	ENSG00000001	-0.1	9e-07	4e-06	2 x 39 proline/arginine-rich end leucine-rich repeat protein [Source:HGNC Symbol;Acc:HGNC:1155]
6	ENSG00000001	-0.08	1e-06	4e-06	3 x 40 angiotensin-like 1 [Source:HGNC Symbol;Acc:HGNC:489]
7	ENSG00000001	-0.13	1e-06	4e-06	1 x 40 popeye domain containing 2 [Source:HGNC Symbol;Acc:HGNC:17732]
8	ENSG00000001	-0.2	1e-06	4e-06	1 x 40 synaptotagmin 2 [Source:HGNC Symbol;Acc:HGNC:17732]
9	ENSG00000000	-0.08	2e-06	6e-06	3 x 40 neuronatin [Source:HGNC Symbol;Acc:HGNC:7860]
10	ENSG00000001	-0.12	2e-06	6e-06	1 x 40 RNA binding protein with multiple splicing 2 [Source:HGNC Symbol;Acc:HGNC:1155]
11	ENSG00000001	-0.14	3e-06	6e-06	1 x 40 serum deprivation response [Source:HGNC Symbol;Acc:HGNC:1155]
12	ENSG00000001	-0.09	3e-06	6e-06	2 x 40 heart and neural crest derivatives expressed 2 [Source:HGNC Symbol;Acc:HGNC:1155]
13	ENSG00000000	-0.12	3e-06	6e-06	1 x 40 tachykinin receptor 2 [Source:HGNC Symbol;Acc:HGNC:1155]
14	ENSG00000000	-0.29	3e-06	6e-06	1 x 40 four and a half LIM domains 1 [Source:HGNC Symbol;Acc:HGNC:1155]
15	ENSG00000000	-0.16	4e-06	6e-06	1 x 40 nudE neurodevelopment protein 1 [Source:HGNC Symbol;Acc:HGNC:1155]
16	ENSG00000001	-0.08	4e-06	6e-06	2 x 40 transmembrane protein 35 [Source:HGNC Symbol;Acc:HGNC:1155]
17	ENSG00000001	-0.16	4e-06	7e-06	1 x 40 complement component 7 [Source:HGNC Symbol;Acc:HGNC:1155]
18	ENSG00000001	-0.09	5e-06	7e-06	2 x 40 potassium channel subfamily M regulatory beta subunit 1 [Source:HGNC Symbol;Acc:HGNC:1155]
19	ENSG00000001	-0.08	5e-06	7e-06	2 x 40 heart and neural crest derivatives expressed 1 [Source:HGNC Symbol;Acc:HGNC:1155]
20	ENSG00000001	-0.08	6e-06	7e-06	1 x 37 ADAM metallopeptidase domain 33 [Source:HGNC Symbol;Acc:HGNC:1155]

p-values

