Overview
DECO analysis report

RDA information

Contrast design:	Binary
Number of samples:	18
Total iterations:	1000
Positive DE iterations:	314
DE features:	9859
Minimum repeats:	0
LIMMA q.value threshold:	0.05
RDA resampling size:	3

NSCA information

	Control samples	Case samples
Variability explained by NSCA	85.341	85.744
NSCA C−statistic p.value	0	0
Huber's gamma	0.779	0.606

Feature ranking information

Ranking	ID	SYMBOL	UpDw	Profile
1	SMLR1	SMLR1	DOWN	Majority
2	CD200R1L	CD200R1L	DOWN	Majority
4	C17orf78	C17orf78	DOWN	Majority
5	PTH1R	PTH1R	DOWN	Majority
6	SLC17A4	SLC17A4	DOWN	Majority
7	C8orf74	C8orf74	DOWN	Majority
8	E2F2	E2F2	DOWN	Majority
9	MIR1539	MIR1539	DOWN	Majority
10	IL23R	IL23R	DOWN	Majority

	Samples	Subclass
1	C66	SIMPLE_INFERTILITY Subclass 1
2	C45	SIMPLE_INFERTILITY Subclass 1
3	A1	SIMPLE_INFERTILITY Subclass 1
4	A45	SIMPLE_INFERTILITY Subclass 1
5	A46	SIMPLE_INFERTILITY Subclass 1
6	C8	SIMPLE_INFERTILITY Subclass 2
7	C4	SIMPLE_INFERTILITY Subclass 2
8	A7	SIMPLE_INFERTILITY Subclass 2
9	A48	SIMPLE_INFERTILITY Subclass 2
10	A16	SIMPLE_INFERTILITY Subclass 3
11	A2	COMBINED_INFERTILITY Subclass 1
12	A8	COMBINED_INFERTILITY Subclass 2
13	A13	COMBINED_INFERTILITY Subclass 3
14	A30	COMBINED_INFERTILITY Subclass 3
15	A19	COMBINED_INFERTILITY Subclass 4
16	A27	COMBINED_INFERTILITY Subclass 4
17	A29	COMBINED_INFERTILITY Subclass 5
18	A35	COMBINED_INFERTILITY Subclass 5

Subclass information

	Samples	FeaturesUP	FeaturesDOWN	average.hStat.perc95	Binary	isRelevant
SIMPLE_INFERTILITY Subclass 1	5	156	15	6.810768	0	TRUE
SIMPLE_INFERTILITY Subclass 2	4	1550	32	10.418300	0	TRUE
SIMPLE_INFERTILITY Subclass 3	1	7721	385	28.940970	0	TRUE
COMBINED_INFERTILITY Subclass 1	1	91	907	10.719226	1	TRUE
COMBINED_INFERTILITY Subclass 2	1	57	621	9.912938	1	TRUE
COMBINED_INFERTILITY Subclass 3	2	128	1241	9.726812	1	TRUE
COMBINED_INFERTILITY Subclass 4	2	125	4999	8.615890	1	TRUE
COMBINED_INFERTILITY Subclass 5	2	45	1645	15.610096	1	TRUE

Non−relevant subclasses are grey−colored

RDA: Differential events counted per sample

Samples with higher amounts of 'Repeats' resemble more different profiles from other class of samples.

CONTROL

CASE

Repeats per sample

54000
48000
42000
36000
30000
24000
18000
12000
6000
0

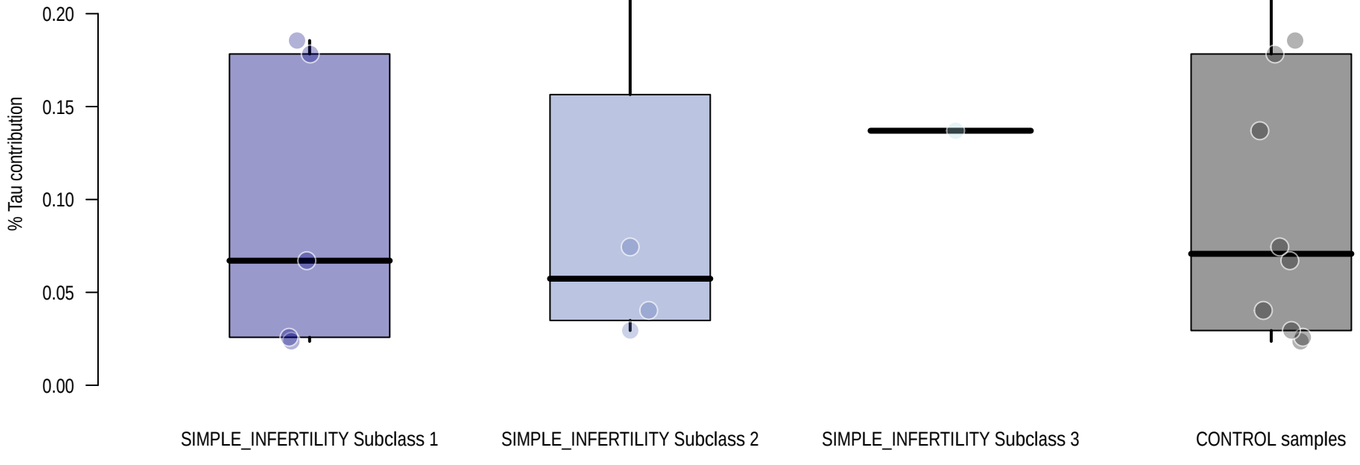
1 9 4 2 7 8 6 3 5 10 16 15 17 13 14 11 12 18

Reference number from samples

NSCA: Goodman and Kruskal's Tau contribution

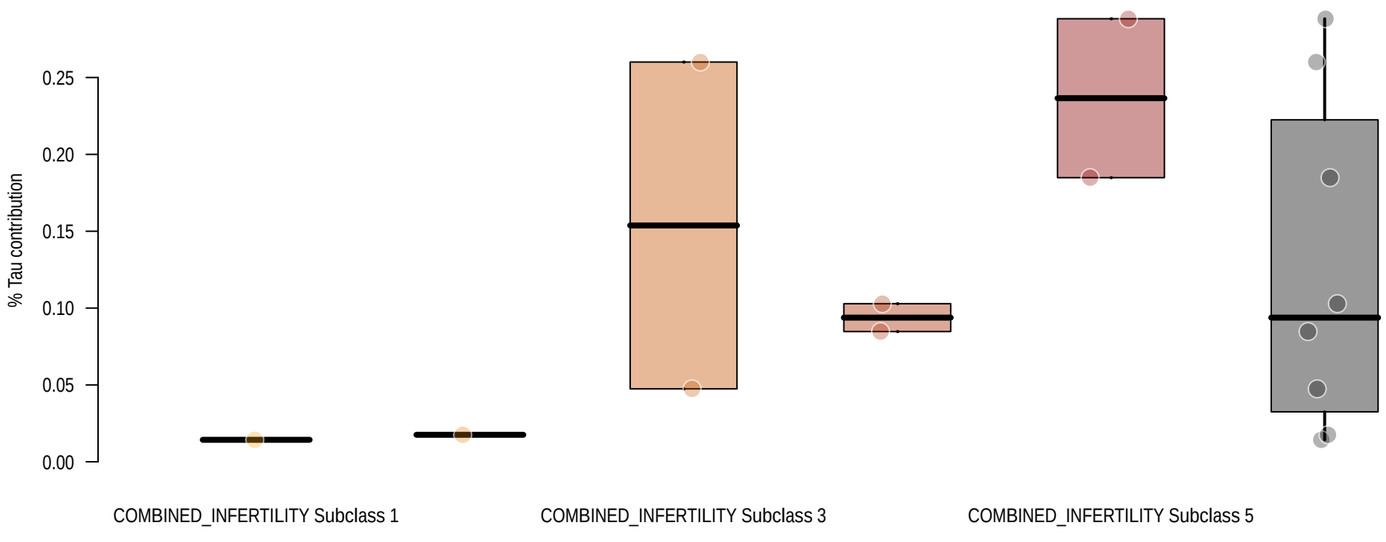
A higher Tau value per sample indicates more sample−specific signal.

CONTROL samples



	CONTROL NSCA
Tau	9e−05
C.Statistic	171560.27683
p.value	0

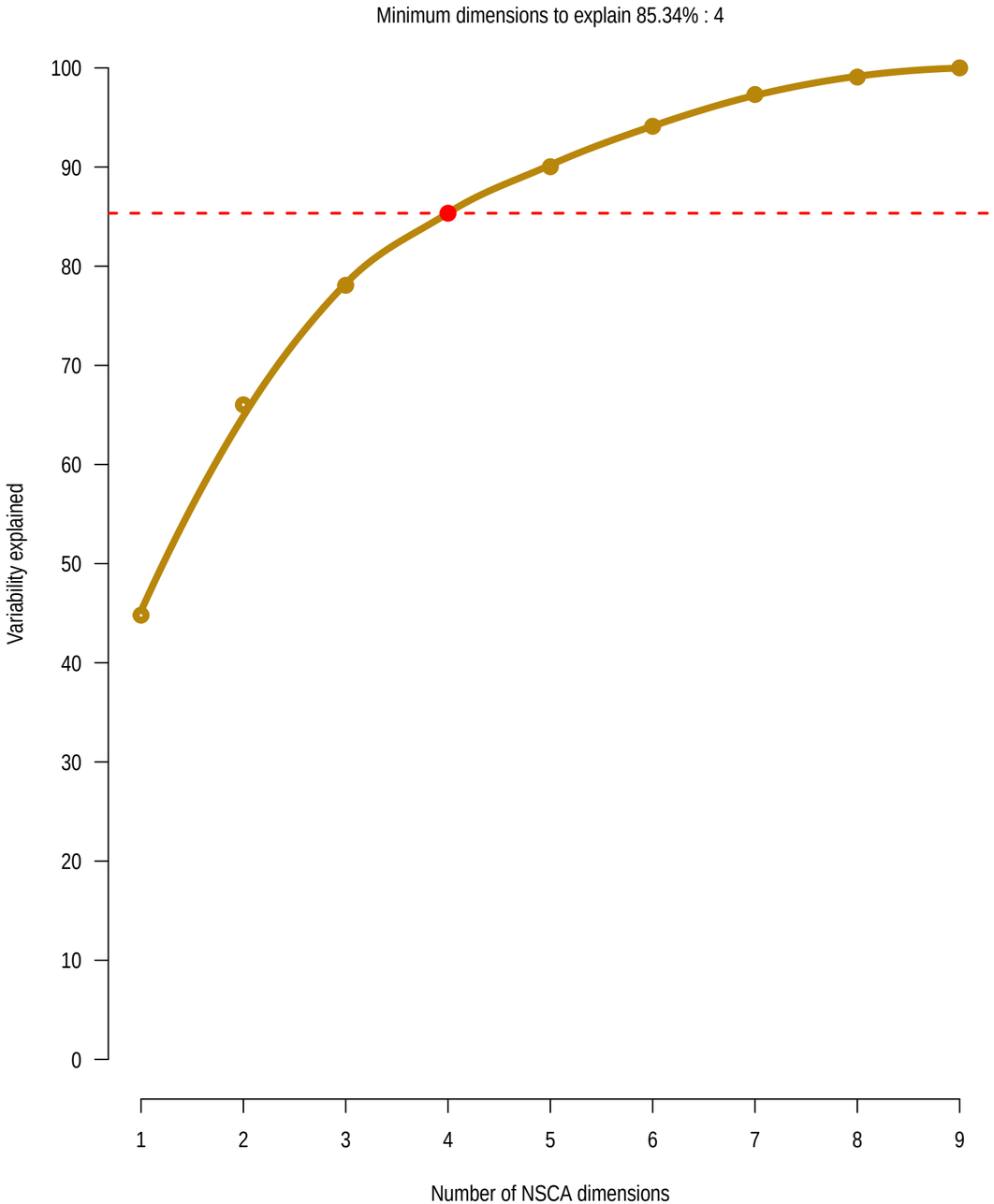
CASE samples



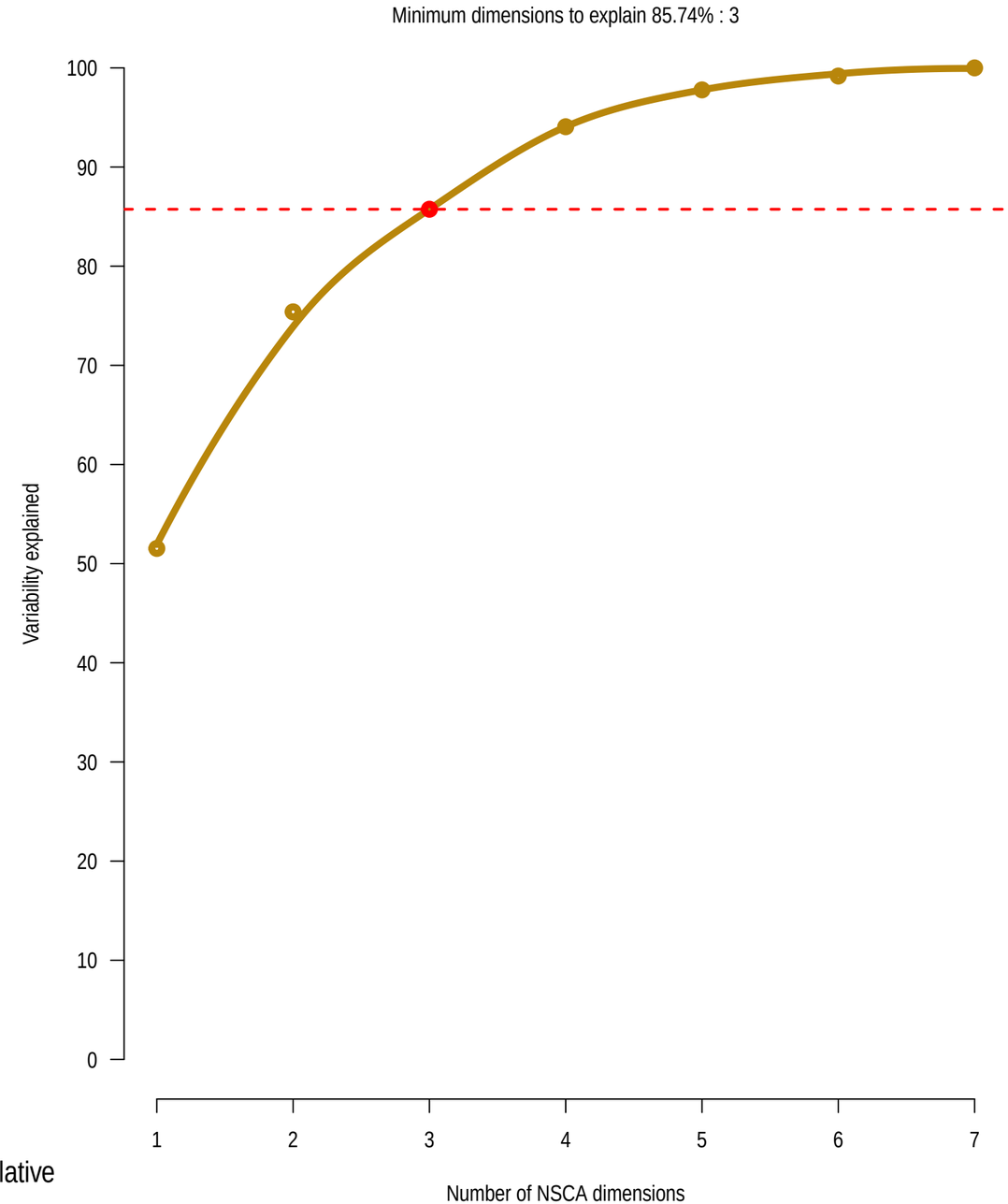
	CASE NSCA
Tau	1e−04
C.Statistic	189196.93458
p.value	0

NSCA: Smooth−curve of variability explained

Control samples



Case samples



Cumulative

RDA: Top 50 feature signature, MAJORITIES ranking method was applied

Ranking	ID	SYMBOL	UpDw	Profile	overlap.Ctrl.Case	Standard.Chi.Square	Repeats	Repeats.index	delta.signal	sd.Ctrl	Dendrogram.group.Ctrl	h.Range.Ctrl	sd.Case	Dendrogram.group.Case	h.Range.Case
1	SMLR1	SMLR1	DOWN	Majority	0.257	45.125	29	77.778	−2.887847	1.668	5	14.034	1.435	5	6.126
2	CD200R1L	CD200R1L	DOWN	Majority	0.302	50.587	29	72.222	−3.050830	1.103	6	14.756	2.262	5	16.585
3	LINC01349	NotAssigned	DOWN	Majority	0.255	72.442	45	77.778	−2.611269	1.033	4	20.418	1.091	1	5.842
4	C17orf78	C17orf78	DOWN	Majority	0.225	45.021	25	77.778	−2.579648	1.446	6	15.122	1.229	1	8.266
5	PTH1R	PTH1R	DOWN	Majority	0.236	29.887	17	66.667	−2.794686	1.875	4	36.796	2.071	4	17.522
6	SLC17A4	SLC17A4	DOWN	Majority	0.310	36.101	19	66.667	−2.504904	1.522	5	13.902	1.905	5	13.129
7	C8orf74	C8orf74	DOWN	Majority	0.317	27.887	9	61.111	−2.643793	1.176	5	19.340	2.218	9	15.776
8	E2F2	E2F2	DOWN	Majority	0.291	38.401	22	72.222	−2.368690	1.549	5	14.976	2.095	5	12.871
9	MIR1539	MIR1539	DOWN	Majority	0.275	37.131	20	83.333	−2.325484	0.878	7	2.931	1.016	6	3.417
10	IL23R	IL23R	DOWN	Majority	0.357	31.084	19	66.667	−3.048376	1.033	5	11.512	2.262	4	17.755
11	AADACL2	AADACL2	DOWN	Majority	0.303	26.683	14	61.111	−2.546591	1.460	5	17.016	1.887	4	16.200
12	CDH16	CDH16	DOWN	Majority	0.312	26.317	12	72.222	−2.892005	1.557	4	40.081	2.017	2	14.624
13	PDZD9	PDZD9	DOWN	Majority	0.309	25.867	9	61.111	−2.931205	1.431	5	13.242	2.280	4	15.652
14	ADAM21	ADAM21	DOWN	Majority	0.291	26.184	16	138.889	−2.451136	1.294	6	13.843	2.382	2	19.117
15	C19orf67	C19orf67	DOWN	Majority	0.287	37.991	10	61.111	−2.374051	1.467	5	16.718	1.874	4	14.277
16	MLIP	MLIP	DOWN	Majority	0.351	29.845	22	77.778	−2.310117	1.077	5	9.682	1.450	5	8.774
17	FIGLA	FIGLA	DOWN	Majority	0.227	44.969	23	83.333	−2.036209	1.295	1	21.404	0.563	9	7.118
18	PDYN	PDYN	DOWN	Majority	0.394	50.991	24	77.778	−3.474200	1.584	5	28.240	2.976	2	22.344
19	ZNF705G	ZNF705G	DOWN	Majority	0.361	48.138	30	72.222	−2.217032	1.783	5	15.487	2.228	5	11.958
20	GUCA1C	GUCA1C	DOWN	Majority	0.325	53.597	33	72.222	−2.035654	1.587	6	14.054	1.247	5	1.930
21	OR8B3	OR8B3	DOWN	Majority	0.367	37.419	11	61.111	−2.383705	1.211	5	17.546	2.116	5	14.242
22	MUC16	MUC16	DOWN	Majority	0.367	29.181	15	61.111	−3.052152	1.459	6	12.920	2.580	4	19.832
23	HPCAL4	HPCAL4	DOWN	Majority	0.239	31.563	20	66.667	−1.931265	1.992	4	21.005	1.001	2	7.850
24	USH2A	USH2A	DOWN	Majority	0.366	28.701	15	66.667	−2.199426	1.423	5	17.163	1.979	4	14.751
25	CPEB2−DT	CPEB2−DT	DOWN	Majority	0.365	24.878	9	83.333	−2.573141	1.057	5	12.282	2.334	5	17.897
26	FAM135B	FAM135B	DOWN	Majority	0.367	28.282	14	66.667	−2.194647	1.109	5	11.533	1.799	4	12.396
27	C4BPB	C4BPB	DOWN	Majority	0.229	47.052	30	88.889	−1.774923	1.033	4	5.872	0.895	6	6.426
28	CRHBP	CRHBP	DOWN	Majority	0.366	42.214	27	77.778	−2.055429	1.635	4	22.971	1.407	2	5.080
29	GRID1−AS1	GRID1−AS1	DOWN	Majority	0.380	27.633	15	66.667	−2.175628	1.774	6	15.567	2.387	2	19.801
30	ACTC1	ACTC1	DOWN	Majority	0.390	41.905	21	77.778	−2.213592	0.913	3	24.075	1.831	4	12.813
31	ANO2	ANO2	DOWN	Majority	0.297	26.776	14	66.667	−2.131594	1.381	5	17.511	1.497	2	11.677
32	RFPL4B	RFPL4B	DOWN	Majority	0.369	54.427	31	72.222	−1.979945	1.492	5	21.368	1.542	1	8.236
33	CRPPA−AS1	CRPPA−AS1	DOWN	Majority	0.359	23.475	11	61.111	−2.334618	1.601	5	16.485	2.350	4	17.865
34	APOBEC4	APOBEC4	DOWN	Majority	0.366	23.686	13	61.111	−3.079563	1.330	6	12.588	2.775	4	24.721
35	TAS2R1	TAS2R1	DOWN	Majority	0.254	22.189	11	94.444	−2.756305	1.443	5	17.735	2.682	4	21.842
36	FPR2	FPR2	DOWN	Majority	0.378	23.802	10	72.222	−2.513358	1.136	6	18.404	1.963	4	13.479
37	LINC00636	LINC00636	DOWN	Majority	0.261	47.501	26	72.222	−1.584861	1.360	3	23.821	1.543	3	6.379
38	MIR3150B	MIR3150B	DOWN	Majority	0.310	35.935	15	77.778	−2.071465	1.331	6	13.096	1.458	10	8.524
39	PRR23A	PRR23A	DOWN	Majority	0.275	25.224	10	77.778	−2.064126	1.208	6	20.743	1.876	5	7.029
40	PCDHB3	PCDHB3	DOWN	Majority	0.362	28.065	8	66.667	−2.061240	1.794	5	19.860	2.238	4	20.506
41	SLCO1C1	SLCO1C1	DOWN	Majority	0.304	27.971	14	66.667	−2.027685	2.280	5	19.429	1.726	5	6.992
42	TRABD2B	TRABD2B	DOWN	Majority	0.374	47.408	26	72.222	−1.859863	1.798	3	24.159	1.778	1	16.864
43	CYP2C8	CYP2C8	DOWN	Majority	0.371	28.133	15	61.111	−2.016765	1.536	5	16.790	1.902	4	15.219
44	MIR3150A	MIR3150A	DOWN	Majority	0.311	37.858	16	77.778	−2.010421	1.291	6	13.665	1.458	10	8.526
45	MYCT1	MYCT1	DOWN	Majority	0.391	38.335	28	72.222	−1.970283	0.982	5	11.708	1.548	5	8.081
46	OR8B2	OR8B2	DOWN	Majority	0.342	37.654	11	61.111	−2.005765	1.048	5	14.748	2.045	5	14.750
47	FAM81B	FAM81B	DOWN	Majority	0.334	22.008	11	61.111	−2.495229	1.357	5	16.276	1.990	4	15.655
48	LRRD1	LRRD1	DOWN	Majority	0.231	21.380	11	61.111	−2.916263	1.367	5	15.392	2.643	4	22.103
49	TRHDE	TRHDE	DOWN	Majority	0.371	22.856	14	127.778	−2.423377	1.196	4	35.990	1.701	2	13.396
50	MOXD1	MOXD1	DOWN	Majority	0.396	26.776	14	72.222	−1.985561	1.578	4	13.236	2.221	2	18.277

X RDA info X NSCA: CONTROL info X NSCA: CASE info

RDA: Top 50 feature signature, MINORITIES ranking method was applied

Ranking	ID	SYMBOL	UpDw	Profile	overlap.Ctrl.Case	Standard.Chi.Square	Repeats	Repeats.index	delta.signal	sd.Ctrl	Dendrogram.group.Ctrl	h.Range.Ctrl	sd.Case	Dendrogram.group.Case	h.Range.Case
1	RFTN1	RFTN1	DOWN	Minority	0.533	6.139	1	33.333	−1.36014954	1.143	6	14.283	1.518	1	11.142
2	ATP6V1C2	ATP6V1C2	DOWN	Minority	0.665	7.052	3	44.444	0.06068543	0.188	9	1.444	0.476	6	3.558
3	GPR153	GPR153	DOWN	Minority	0.434	7.712	2	38.889	−0.91126340	0.655	6	7.926	0.504	1	4.030
4	CFAP99	CFAP99	DOWN	Minority	0.507	3.644	1	33.333	−1.92002788	1.262	6	13.621	1.459	4	11.973
5	COG2	COG2	DOWN	Minority	0.722	6.892	3	38.889	−0.16985337	0.636	8	11.470	0.416	7	2.762
6	TYRP1	TYRP1	DOWN	Minority	0.643	5.793	2	33.333	−1.48010880	1.573	5	24.362	1.267	4	10.839
7	TMEM233	TMEM233	DOWN	Minority	0.669	11.396	2	50.000	−0.72448169	1.679	3	27.927	1.024	1	7.491
8	GOLGA6L4	GOLGA6L4	DOWN	Minority	0.523	12.418	4	61.111	−1.77720802	1.278	6	12.440	1.544	4	9.966
9	DNAJC28	DNAJC28	DOWN	Minority	0.573	4.302	1	33.333	0.35020891	1.241	8	22.471	1.150	7	8.405
10	PELP1−DT	PELP1−DT	DOWN	Minority	0.673	5.174	2	33.333	−0.07345446	0.566	1	4.509	1.040	9	8.248
11	WDR97	WDR97	DOWN	Minority	0.472	3.710	1	33.333	−2.12394520	1.175	6	14.053	1.851	4	14.751
12	PEX2	PEX2	DOWN	Minority	0.611	3.806	1	33.333	0.15108671	0.560	8	10.214	0.601	6	4.474
13	PICK1	PICK1	DOWN	Minority	0.638	3.827	1	33.333	−0.30034277	0.260	8	3.436	0.186	9	1.287
14	SLC44A5	SLC44A5	DOWN	Minority	0.622	6.725	2	44.444	−1.00016675	0.955	5	10.620	1.483	8	4.217
15	PRIMA1	PRIMA1	UP	Minority	0.486	6.101	1	33.333	−0.25500849	0.970	9	4.458	1.892	9	9.532
16	AGBL5	AGBL5	DOWN	Minority	0.483	5.991	2	38.889	−0.35658186	0.470	7	8.428	0.208	4	2.069
17	CLEC1A	CLEC1A	DOWN	Minority	0.722	5.273	1	33.333	−0.36954154	1.721	5	16.839	1.389	5	9.263
18	TAPT1−AS1	TAPT1−AS1	DOWN	Minority	0.733	5.197	1	33.333	−0.31044495	0.456	5	3.699	0.407	10	1.382
19	PTGIR	PTGIR	UP	Minority	0.725	5.619	1	33.333	−0.12853960	2.327	3	39.358	2.263	3	15.808
20	PDE2A	PDE2A	DOWN	Minority	0.517	6.035	1	33.333	−1.15863699	1.685	4	29.597	1.575	3	10.780
21	BCHE	BCHE	DOWN	Minority	0.588	4.496	1	33.333	−0.50516460	1.241	7	14.487	1.156	2	8.096
22	GAS1	GAS1	DOWN	Minority	0.651	5.440	2	77.778	−0.33320195	0.336	3	4.185	0.215	9	1.138
23	SNORA71E	SNORA71E	UP	Minority	0.678	7.370	2	38.889	0.46487350	0.826	8	15.071	0.502	6	3.337
24	GIT1	GIT1	DOWN	Minority	0.550	6.471	2	38.889	−0.76407684	0.677	5	7.434	0.451	4	3.056
25	TAS1R3	TAS1R3	DOWN	Minority	0.465	5.077	1	33.333	−0.94730554	1.413	4	24.044	1.221	2	8.952
26	SETD4	SETD4	DOWN	Minority	0.581	3.616	1	33.333	−0.13528596	0.128	4	0.783	0.522	7	3.917
27	ORMDL1	ORMDL1	DOWN	Minority	0.493	4.699	1	33.333	0.03958582	0.642	8	11.138	0.825	6	5.600
28	PTTG2	PTTG2	UP	Minority	0.665	9.462	1	33.333	0.39097021	0.497	9	1.955	0.837	6	8.243
29	TMEM45B	TMEM45B	DOWN	Minority	0.507	4.143	1	33.333	−0.14030824	0.952	4	16.869	1.208	9	7.826
30	NRSN2	NRSN2	DOWN	Minority	0.426	5.495	2	38.889	−0.54306981	0.291	5	1.153	0.241	1	1.212
31	MED15	MED15	DOWN	Minority	0.488	3.888	1	66.667	−0.40652317	0.157	8	1.184	0.166	9	1.352
32	CD22	CD22	DOWN	Minority	0.638	4.749	1	66.667	−0.85475514	1.752	4	23.613	2.232	2	18.680
33	CHRNA3	CHRNA3	DOWN	Minority	0.706	5.341	1	33.333	−0.32075035	0.665	3	9.749	0.803	2	5.889
34	CLASP1	CLASP1	DOWN	Minority	0.739	7.360	3	50.000	−0.26978809	0.297	7	3.352	0.443	7	3.059
35	ZDHHC19	ZDHHC19	DOWN	Minority	0.533	6.726	1	33.333	−2.72125420	1.472	6	14.971	3.325	4	25.253
36	TUBBP5	NotAssigned	DOWN	Minority	0.500	6.648	1	33.333	−0.55409406	1.148	1	4.980	0.882	3	8.214
37	VWA5A	VWA5A	DOWN	Minority	0.634	4.354	1	33.333	−0.43878814	0.467	7	7.628	0.374	7	2.499
38	CCT4	CCT4	DOWN	Minority	0.721	4.492	1	33.333	0.06402576	0.418	10	6.683	0.579	7	4.254
39	PRM2	PRM2	DOWN	Minority	0.478	5.575	1	33.333	−2.76967497	1.581	5	16.855	3.088	4	24.328
40	RIBC2	RIBC2	DOWN	Minority	0.489	3.547	1	33.333	−0.84834712	0.543	7	7.997	0.626	1	4.944
41	RASSF2	RASSF2	DOWN	Minority	0.685	3.661	1	33.333	−0.20305224	0.571	5	1.829	0.371	10	1.937
42	CAPN14	CAPN14	DOWN	Minority	0.635	7.180	1	33.333	−0.69776310	0.985	4	11.491	0.833	1	6.661
43	PEG10	PEG10	DOWN	Minority	0.599	3.748	1	33.333	−0.57811704	0.678	9	5.367	0.817	7	4.887
44	ENTR1	ENTR1	DOWN	Minority	0.587	3.781	1	33.333	−0.30506098	0.225	8	3.745	0.148	9	0.683
45	MRGPRD	MRGPRD	DOWN	Minority	0.499	3.787	1	33.333	−0.43150578	1.440	3	17.626	1.393	9	9.640
46	MAP4	MAP4	DOWN	Minority	0.518	3.798	1	183.333	−0.55429206	0.343	8	3.948	0.381	7	1.970
47	EXT1	EXT1	DOWN	Minority	0.649	3.823	1	33.333	−0.36949017	0.328	1	4.678	0.287	3	2.784
48	RLN1	RLN1	DOWN	Minority	0.506	5.359	2	33.333	0.45821268	0.573	9	3.613	1.338	8	9.202
49	SEL1L3	SEL1L3	DOWN	Minority	0.666	3.938	1	33.333	−0.29887728	0.302	4	1.090	0.325	2	2.123
50	WDR88	WDR88	DOWN	Minority	0.643	4.080	1	33.333	−0.65538226	0.735	4	7.066	0.830	5	5.885

X RDA info X NSCA: CONTROL info X NSCA: CASE info

RDA: Repeats threshold based on differential events distribution per feature

0 features within <= 5 % samples with at least 1 repeats.

% samples amounting threshold: 1 repeats

80
60
40
20
0

PTH1R
CD200R1L

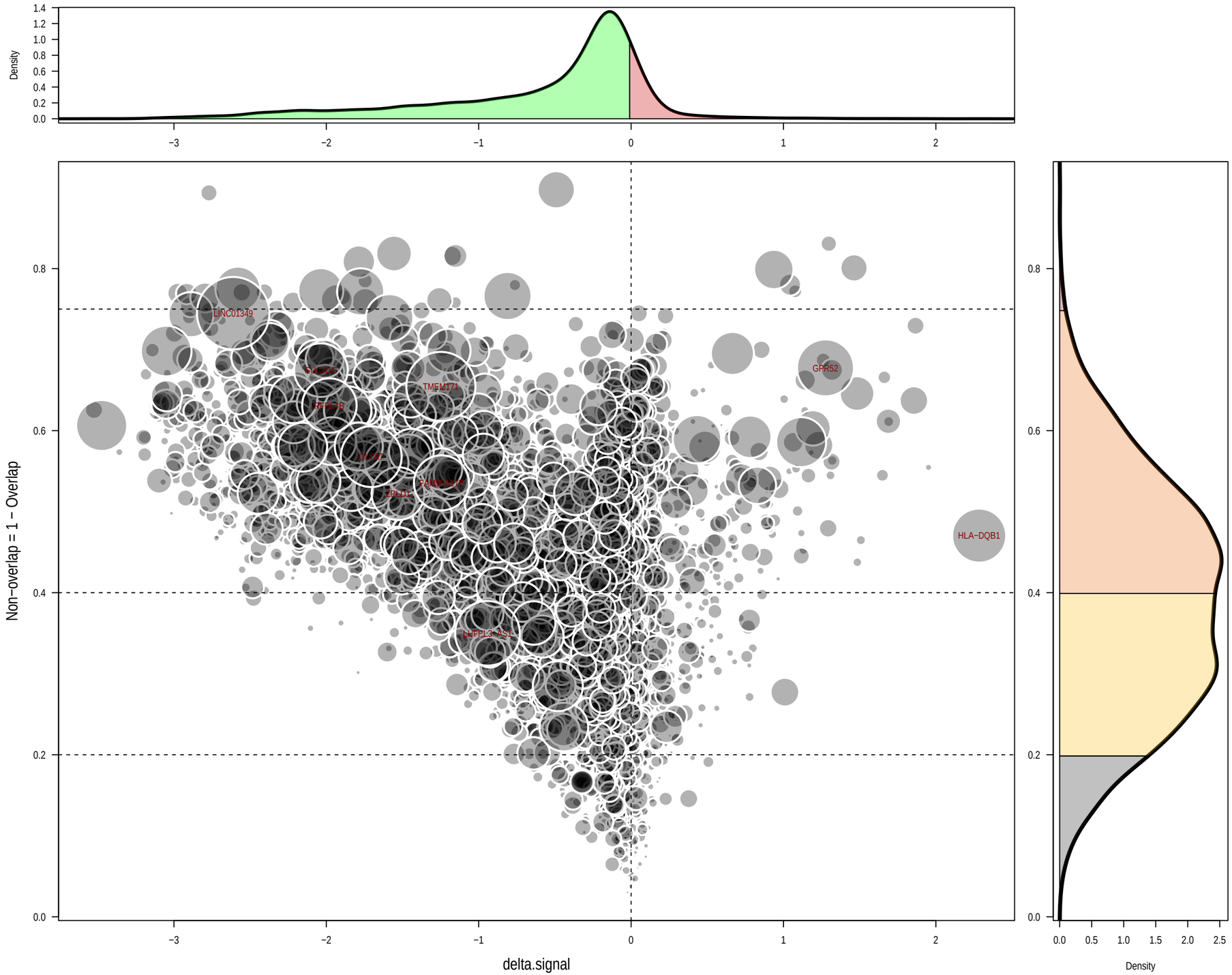
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0

% samples amounting at least 1 repeat

50
47
43
40
37
34
30
27
24
21
17
14
11
8
4
1

RDA: overlap Signal VS delta Signal plot

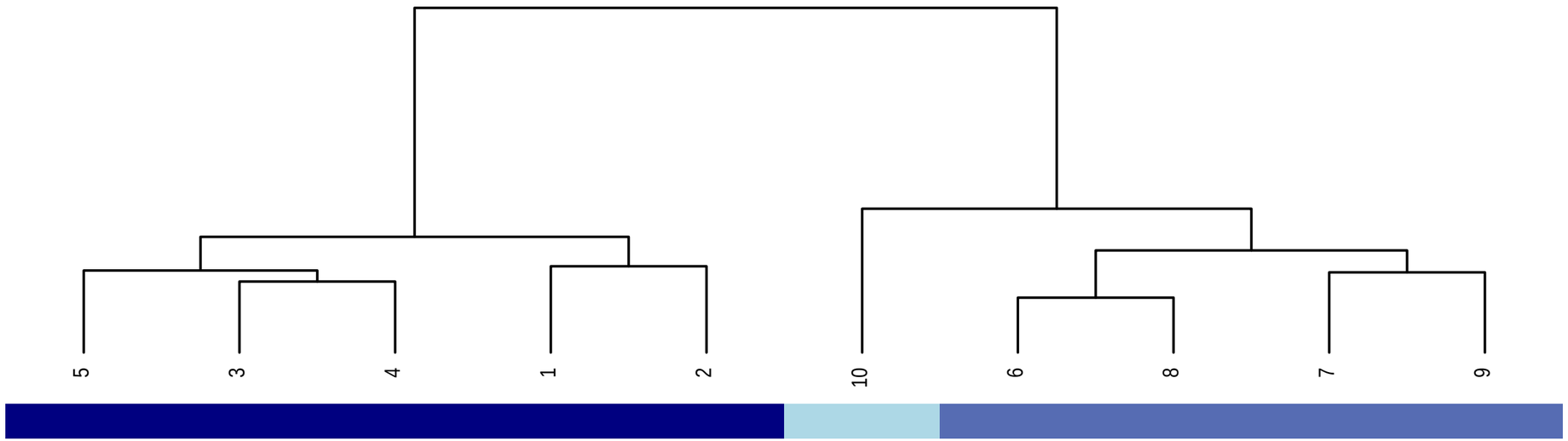
Circle size corresponds to relative amount of 'Standard.Chi.Square' per feature.
Higher circles indicate more DIFFERENTIAL SIGNAL between both classes.



- ID provided by user
- A — Top−15 features based on Standard.Chi.Square
- Thresholds among different feature profiles
- COMPLETE features
- MAJORITY features
- MINORITY features
- MIXED features

NSCA: Subclasses of samples found based on 'h' statistic

CONTROL samples

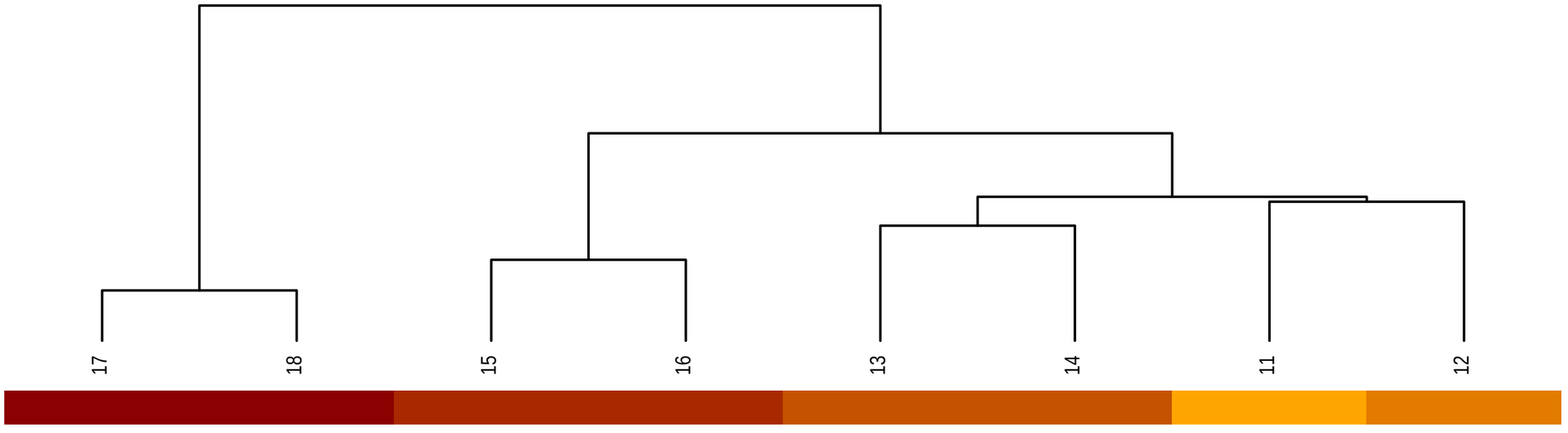


Hubber's gamma coefficient for cutting dendrogram: 0.779

Subclasses of samples found

- SIMPLE_INFERTILITY Subclass 1
- SIMPLE_INFERTILITY Subclass 2
- SIMPLE_INFERTILITY Subclass 3
- COMBINED_INFERTILITY Subclass 1
- COMBINED_INFERTILITY Subclass 2
- COMBINED_INFERTILITY Subclass 3
- COMBINED_INFERTILITY Subclass 4
- COMBINED_INFERTILITY Subclass 5

CASE samples



Hubber's gamma coefficient for cutting dendrogram: 0.606

Mean 'h' statistic per subclass within CONTROL samples

Top 50 discriminant features among subclasses found by DECO algorithm.

ID	SYMBOL	Standard.Chi.Square	Ranking.Scl1.Ctrl	h.Scl1.Ctrl	Ranking.Scl2.Ctrl	h.Scl2.Ctrl	Ranking.Scl3.Ctrl	h.Scl3.Ctrl	h.Range.Ctrl	Dendrogram.group.Ctrl	Dendrogram.order.Ctrl
OR3A3	OR3A3	18.863185	213	−7.10337177	1234	6.3945632	1	56.61338	63.71675	4	1628
CIBAR2	CIBAR2	12.765947	11	−10.32577119	211	9.0373900	3	50.78863	61.11440	4	1631
MIR4313	MIR4313	26.805489	73	−8.24341378	455	8.1609773	2	52.47199	60.71540	4	1669
ADGRG5	ADGRG5	12.864419	10	−10.33822459	344	8.4946651	6	47.74593	58.08416	4	1556
CABP1	CABP1	10.057866	52	−8.76776369	1232	6.3973061	4	48.89220	57.65996	4	1677
DIO3	DIO3	10.588093	2	−12.28413832	21	11.5271390	10	45.36761	57.65174	4	1649
CACNG2	CACNG2	9.806657	88	−8.01141412	1643	5.4997433	5	48.30732	56.31873	3	623
RCVRN	RCVRN	11.360099	40	−9.13311836	875	7.1252812	8	46.45073	55.58385	4	1627
CAMK2A	CAMK2A	13.576706	134	−7.59328717	1806	5.1534496	9	46.40463	53.99791	4	1652
LMO1	LMO1	11.868932	34	−9.34271818	458	8.1509396	12	44.62613	53.96885	4	1531
GJB5	GJB5	11.848179	41	−9.13305233	687	7.5623656	13	44.43047	53.56352	4	1423
ADAMTS10	ADAMTS10	9.853526	83	−8.09360528	1411	6.0050584	14	44.25125	52.34486	4	1655
CPNE9	CPNE9	9.399008	256	−6.81487225	2295	4.1096427	11	44.79834	51.61321	4	1625
VENTX	VENTX	11.868184	1389	−4.48923671	4604	1.1026939	7	46.90594	51.39518	3	1155
SLC22A13	SLC22A13	10.367778	479	−6.02753892	2650	3.4105945	15	44.19039	50.21793	4	1656
SORCS2	SORCS2	19.736586	136	−7.57190289	699	7.5367953	19	42.37122	49.94313	4	1678
LEFTY2	LEFTY2	15.189468	12	−10.27443238	71	10.0757175	29	39.14067	49.41510	4	1641
POSTN	POSTN	28.460456	9779	0.03354511	96	−9.8414141	28	39.45400	49.29542	3	786
DES	DES	14.716662	78	−8.19830884	905	7.0418373	24	40.05295	48.25126	4	1663
FAM215A	FAM215A	10.994141	332	−6.47698894	2294	4.1126407	22	41.48633	47.96332	4	1653
DNTT	DNTT	35.683838	244	−6.85449247	285	8.7144810	23	41.10623	47.96073	4	1676
SLC7A14	SLC7A14	35.093669	490	−6.00290647	1373	6.0781159	21	41.78129	47.78420	3	1121
PRSS56	PRSS56	12.555136	8	−10.43449727	107	9.7176917	38	37.28662	47.72111	4	1659
SHISAL1	SHISAL1	32.509779	1906	−3.81663960	2930	−2.9231584	16	43.86655	47.68319	3	925
MOXD2P	MOXD2P	11.241136	14	−10.14144074	97	9.8411637	41	37.12681	47.26825	4	1689
PSMB11	PSMB11	28.330379	1615	−4.18930978	836	7.2228819	18	42.70969	46.89900	3	1178
TRH	TRH	13.490879	55	−8.69598109	789	7.3156708	34	38.14876	46.84474	4	1743
MIR1470	MIR1470	15.169328	1125	−4.82443233	3334	2.2593390	20	41.78791	46.61234	3	990
LINC00273	LINC00273	18.746579	311	−6.56916361	5434	−0.8151643	25	40.00243	46.57159	3	874
IL17B	IL17B	17.797268	138	−7.55456820	1466	5.8769924	30	38.88551	46.44007	4	1664
CYP2A13	CYP2A13	19.555619	294	−6.62411727	2062	4.6184300	26	39.56605	46.19017	4	1657
FAM83C	FAM83C	27.070998	196	−7.21118594	1976	4.8216840	31	38.84568	46.05686	4	1675
COL7A1	COL7A1	9.393203	171	−7.29310324	1681	5.4018121	33	38.59096	45.88407	4	1624
KLK8	KLK8	10.663140	57	−8.67212888	647	7.6672151	50	36.43450	45.10663	4	1474
LRIT3	LRIT3	24.702391	3582	−2.04746187	9150	−0.1059363	17	43.05718	45.10464	3	870
GUSBP10		25.466186	473	−6.04551214	1946	4.8786797	32	38.70927	44.75479	4	1674
TMEM132E	TMEM132E	12.197198	31	−9.39851580	215	9.0230191	58	35.22310	44.62162	4	1658
LINC02291	LINC02291	30.279560	127	−7.68360587	62	10.2538096	45	36.86281	44.54642	4	1633
HDC	HDC	20.604073	396	−6.28656324	1757	5.2555676	35	38.11916	44.40572	4	1508
CMAHP	CMAHP	15.222784	25	−9.64389239	86	9.9007753	61	34.71995	44.36384	4	1410
ESPNL	ESPNL	9.350361	45	−8.94040057	3786	1.7294671	56	35.28986	44.23026	4	1651
CTSW	CTSW	11.769996	203	−7.16975605	1664	5.4426835	43	37.04046	44.21022	4	1557
UNC13D	UNC13D	16.315956	319	−6.53756924	1413	6.0024355	37	37.66014	44.19771	4	1623
CPLX2	CPLX2	10.497624	1361	−4.51807043	3829	1.6909850	27	39.54204	44.06011	4	1539
CAV1	CAV1	16.215914	8807	0.39279292	135	−9.4947306	64	34.49964	43.99437	3	788
TBX20	TBX20	20.510201	245	−6.85442147	1349	6.1337609	42	37.12422	43.97864	4	1650
CD248	CD248	11.337500	9615	−0.09254129	245	−8.8861521	63	34.62499	43.51114	3	785
TMEM235	TMEM235	4.924378	331	−6.49679210	6134	−0.6394491	44	37.01110	43.50789	3	721
SERPINE1	SERPINE1	17.739686	3454	−2.11915819	936	−6.9912295	49	36.44673	43.43796	3	779
ASB18	ASB18	16.366670	848	−5.23619108	3273	−2.3588430	36	38.05417	43.29037	3	645

Mean 'h' statistic per subclass within CASE samples

Top 50 discriminant features among subclasses found by DECO algorithm.

ID	SYMBOL	Standard.Chi.Square	Ranking.Scl1.Case	h.Scl1.Case	Ranking.Scl2.Case	h.Scl2.Case	Ranking.Scl3.Case	h.Scl3.Case	Ranking.Scl4.Case	h.Scl4.Case	Ranking.Scl5.Case	h.Scl5.Case	h.Range.Case	Dendrogram.group.Case	Dendrogram.order.Case
SNORD67	SNORD67	49.980317	1024	3.82269340	821	−3.6648716	6962	1.1012447	1	47.994860	1674	−4.491665	52.48652	6	3708
GPR26	GPR26	43.845060	882	4.20494705	1005	−3.2925172	361	6.1619865	2	−34.029525	1321	−5.551322	40.19151	3	1190
TCL1A	TCL1A	37.023724	916	−4.11022244	936	3.4322954	203	7.1897775	4	−30.279753	1198	−6.008972	37.46953	3	1183
LHFPL3−AS1	LHFPL3−AS1	64.664333	2330	−2.00144485	3367	−1.5646222	885	4.1866858	3	−31.946102	2026	−3.541978	36.13279	3	1191
FAM169BP	FAM169BP	47.986983	1151	−3.54956187	1272	−2.9045493	114	8.0210972	5	−27.731680	1417	−5.257501	35.75278	3	1185
CD300LG	CD300LG	32.843132	692	−4.68494212	498	4.5348938	33	9.6160208	7	−23.741845	1246	−5.824523	33.35787	3	1188
TKTL2	TKTL2	8.453522	3	14.57437095	2450	1.9208096	8254	0.6682932	245	8.014108	3	−18.037724	32.61210	4	2611
TUBA3C	TUBA3C	5.436069	5	13.95930676	8831	0.2542826	1130	3.6545286	617	6.414282	7	−17.235831	31.19514	4	2602
SPATA16	SPATA16	11.111925	17	12.46317955	2418	−1.9352739	1807	2.8705265	353	7.541867	4	−18.012803	30.47598	4	2612
CCDC42	CCDC42	6.894972	1	14.83722296	748	−3.8567523	4217	1.8986142	356	7.532916	45	−15.265770	30.10299	4	2607
SPATA8	SPATA8	10.184692	15	12.94087427	7955	−0.4756369	5300	1.5890337	446	7.044717	13	−16.587771	29.52865	4	2639
RBMXL2	RBMXL2	8.806080	19	12.32738077	8441	−0.3571101	1440	3.1933928	567	6.588235	10	−16.961344	29.28872	4	2613
LYPD4	LYPD4	4.871261	61	9.90110202	1723	2.3998753	2033	2.7139130	70	9.976938	1	−18.853665	28.83060	4	2535
WDR87	WDR87	8.942120	9	13.72343805	3325	−1.5799617	5802	1.4390755	546	6.689039	53	−15.043961	28.76740	4	2605
MORC1	MORC1	7.297684	1095	3.66901527	500	4.5323138	1033	3.8311417	91	9.510714	2	−18.151589	27.66230	4	2103
TEX26	TEX26	13.102618	9245	−0.10478104	1224	2.9699833	3332	2.1612127	39	11.017538	14	−16.454578	27.47212	4	2288
CPA5	CPA5	7.754486	1641	2.78585065	369	5.0376563	1370	3.2806385	89	9.521306	5	−17.473142	26.99445	4	2351
SNORD46	SNORD46	43.403560	1174	−3.51745229	2925	1.7198748	214	7.0917764	8	−19.826708	1479	−5.059734	26.91848	3	1184
MROH2B	MROH2B	9.003745	47	10.50167394	5061	1.1150720	5592	1.5075194	228	8.157071	15	−16.385872	26.88755	4	2555
ADAM30	ADAM30	21.168430	8	13.84440931	877	−3.5567286	1192	−3.5464115	214	8.266954	235	−12.968150	26.81256	4	2776
ZPBP2	ZPBP2	10.182633	23	11.91345858	9210	0.1601232	8952	−0.3833843	202	8.340538	63	−14.886705	26.80016	4	2553
PPP3R2	PPP3R2	6.337974	21	11.99710341	1762	−2.3718339	5657	1.4861134	198	8.372408	69	−14.801966	26.79907	4	2550
RSPH6A	RSPH6A	6.620821	12	13.15454501	2558	−1.8712276	1511	3.1118520	1342	4.630525	170	−13.562053	26.71660	4	2560
MIR663AHG	MIR663AHG	8.095373	375	5.90387992	1021	3.2655363	4888	1.6990544	75	9.869922	11	−16.823098	26.69302	4	2526
CCBE1	CCBE1	14.129943	2312	−2.01755147	2134	2.0983745	89	8.3509637	9	−18.174882	3278	−1.489322	26.52585	3	1200
GTSF1	GTSF1	9.914635	860	4.23284948	3704	1.4618628	478	5.5391304	121	9.110641	6	−17.368384	26.47903	4	2448
LINC00608		7.732573	1374	3.18884091	560	4.3495806	5570	1.5143877	64	10.145726	18	−16.297744	26.44347	4	1796
MIR29C	MIR29C	32.342122	2173	−2.16907262	2207	−2.0520110	3573	−2.0879829	6	24.141969	2804	2.077730	26.31104	6	3693
SPRR4	SPRR4	10.927944	6298	0.59089038	2938	1.7153581	1278	3.4092594	72	9.920417	21	−16.120533	26.04095	4	1929
IQCF4P	IQCF4P	8.326451	1983	2.34614874	488	4.5533197	616	4.9995159	166	8.725142	8	−17.174177	25.89932	4	2438
HSFY1P1	HSFY1P1	23.502497	145	−8.04358392	5651	−0.9872362	5896	1.4150576	34	11.870456	130	−14.013777	25.88423	2	622
LINC00944		8.431361	9290	−0.09659303	615	4.1916393	3594	2.0816919	45	10.722204	49	−15.116668	25.83887	4	2340
LINC01304	LINC01304	7.235045	1338	3.23084401	722	3.9071548	1560	3.0551785	95	9.464014	16	−16.320479	25.78449	4	2349
LINC00700		9.687404	481	−5.43718054	85	7.3392709	6191	1.3434169	36	11.624856	123	−14.050361	25.67522	2	627
IGSF11−AS1	IGSF11−AS1	17.401051	3214	−1.42883412	1212	2.9912382	1985	2.7483090	88	9.555299	24	−15.924414	25.47971	4	1743
H1−6	H1−6	7.217517	4	13.99440044	6957	0.6979488	9442	0.1766021	1655	4.128014	394	−11.474188	25.46859	4	2567
SLC17A8	SLC17A8	33.389783	678	−4.73276628	1344	2.8123599	69	8.8229221	14	−16.628832	1307	−5.592098	25.45175	3	1616
FGF14−IT1	FGF14−IT1	14.803086	3545	1.26944479	1403	2.7376041	6384	1.2837320	82	9.766850	30	−15.650853	25.41770	4	1709
TPD52L3	TPD52L3	8.754324	304	6.41055764	6176	0.8694631	2182	2.6310637	129	9.038490	19	−16.276492	25.31498	4	2525
LINC01096		5.968948	25	11.85517727	8314	−0.3878320	7469	0.9505687	483	6.896323	186	−13.459622	25.31480	4	2608
ZDHHC19	ZDHHC19	6.726363	2839	1.62151449	775	3.7848606	298	6.5363406	225	8.176733	9	−17.076030	25.25276	4	1914
TMCO2	TMCO2	4.947980	2525	1.84071695	3482	1.5306059	1934	2.7802858	58	10.365482	64	−14.883017	25.24850	4	1767
SIGLECL1	SIGLECL1	11.248718	36	11.05050755	7154	0.6523563	7681	0.8706915	724	6.077730	115	−14.129590	25.18010	4	2543
ADAM3A	ADAM3A	7.991869	262	6.67605267	986	3.3316414	7652	−0.8827388	55	10.500238	74	−14.678455	25.17869	5	3251
CETN1	CETN1	9.322611	33	11.13444412	8201	−0.4150994	9094	0.3257403	338	7.628000	126	−14.038035	25.17248	4	2554
RNF113B	RNF113B	5.937763	20	12.01226835	7799	−0.5106285	2993	2.2920056	1051	5.259321	219	−13.121859	25.13413	4	2578
CSMD2−AS1	CSMD2−AS1	16.891983	2180	2.16269168	1458	2.6782063	538	5.2927509	208	8.292936	12	−16.813175	25.10611	4	2447
HBZ	HBZ	15.943033	6626	−0.52976969	4819	1.1722625	9130	0.3096035	41	10.905978	107	−14.181753	25.08773	5	3229
BSX	BSX	24.773999	5381	0.76585025	6905	0.7094630	87	8.3606122	13	−16.726411	1280	−5.682171	25.08702	3	1182
POM121L12	POM121L12	5.271360	13	13.09673759	4483	1.2532484	4746	1.7383982	2813	3.080814	339	−11.756488	24.85323	4	2568