Overview DECO analysis report

RDA information

Contrast design: Binary
Number of samples: 69
Total iterations: 1000

Positive DE iterations: 368

DE features: 6709
Minimum repeats: 0
LIMMA q.value threshold: 0.05

RDA resampling size: 3

NSCA information

	Control samples	Case samples
Variability explained by NSCA	80.425	85.533
NSCA C-statistic p.value	0	0
Huber's gamma	0.622	0.716

Feature ranking information

Ranking	ID	SYMBOL	UpDw	Profile
Ĭ	SERF1A	SERF1A	ÜP	Majority
2	OR14A16	OR14A16	DOWN	Minority
3	NCR3	NCR3	DOWN	Majority
4	MUCL3	MUCL3	DOWN	Minority
5	OR10A2	OR10A2	DOWN	Minority
6	TCHHL1	TCHHL1	DOWN	Majority
7	CCL5	CCL5	DOWN	Minority
8	HBA1	HBA1	UP	Minority
9	NGB	NGB	MIXED	Minority
10	LINC00273	LINC00273	UP	Minority

Subclass information

	Samples	FeaturesUP	FeaturesDOWN	average.hStat.perc95	Binary	isRelevant
FERTILE Subclass 1	· 17	1369	88	39.829691	Ő	TRUE
FERTILE Subclass 2	9	56	48	35.851857	0	TRUE
FERTILE Subclass 3	17	2646	128	36.708833	0	TRUE
FERTILE Subclass 4	8	120	44	41.015318	0	TRUE
FERTILE Subclass 5	5	337	174	34.383123	0	TRUE
FERTILE Subclass 6	3	1167	532	70.935578	0	TRUE
SIMPLE_INFERTILITY Subclass 1	6	145	169	4.194545	1	TRUE
SIMPLE_INFERTILITY Subclass 2	4	1065	5330	10.619193	1	TRUE

Samples C56 Subclass FERTILE Subclass 1 C39 FERTILE Subclass 1 C54 FERTILE Subclass 1 C31 **FERTILE Subclass 1** C68 FERTILE Subclass 1 C49 FERTILE Subclass 1 C67 FERTILE Subclass 1 А3 FERTILE Subclass 1 A14 FERTILE Subclass 1 A31 FERTILE Subclass 1 A32 A33 **FERTILE Subclass 1** FERTILE Subclass 1 A38 FERTILE Subclass 1 A43 FERTILE Subclass 1 FERTILE Subclass 1 A44 A49 FERTILE Subclass 1 A61 FERTILE Subclass 1 C6 FERTILE Subclass 2 C100 **FERTILE Subclass 2** C84 FERTILE Subclass 2 C13 FERTILE Subclass 2 C52 A4 FERTILE Subclass 2 **FERTILE Subclass 2** Α9 FERTILE Subclass 2 A12 FERTILE Subclass 2 A15 **FERTILE Subclass 2** C41 **FERTILE Subclass 3** C2 **FERTILE Subclass 3** C44 C105 **FERTILE Subclass 3 FERTILE Subclass 3** C19 **FERTILE Subclass 3** C32 FERTILE Subclass 3 C72 **FERTILE Subclass 3** C42 **FERTILE Subclass 3** C20 **FERTILE Subclass 3** C79 FERTILE Subclass 3 C90 C5 FERTILE Subclass 3 **FERTILE Subclass 3** A20 **FERTILE Subclass 3** A26 FERTILE Subclass 3 A28 **FERTILE Subclass 3** A39 **FERTILE Subclass 3** A42 **FERTILE Subclass 3** C65 FERTILE Subclass 4 C97 FERTILE Subclass 4 **FERTILE Subclass 4** A11 FERTILE Subclass 4 A34 A40 FERTILE Subclass 4 A41 **FERTILE Subclass 4** A47 **FERTILE Subclass 4** A56 FERTILE Subclass 4 A17 FERTILE Subclass 5 A18 **FERTILE Subclass 5** A21 **FERTILE Subclass 5** A23 FERTILE Subclass 5 A25 FERTILE Subclass 5 A50 A59 FERTILE Subclass 6 FERTILE Subclass 6 A60 FERTILE Subclass 6 C66 SIMPLE_INFERTILITY Subclass 1 SIMPLE INFERTILITY Subclass 1 C45 C8 SIMPLE_INFERTILITY Subclass 1 SIMPLE_INFERTILITY Subclass 1 SIMPLE_INFERTILITY Subclass 1 SIMPLE_INFERTILITY Subclass 1 A1 SIMPLE_INFERTILITY Subclass 2 A16 SIMPLE_INFERTILITY Subclass 2 A45 SIMPLE INFERTILITY Subclass 2 SIMPLE INFERTILITY Subclass 2

11

12 13

14 15

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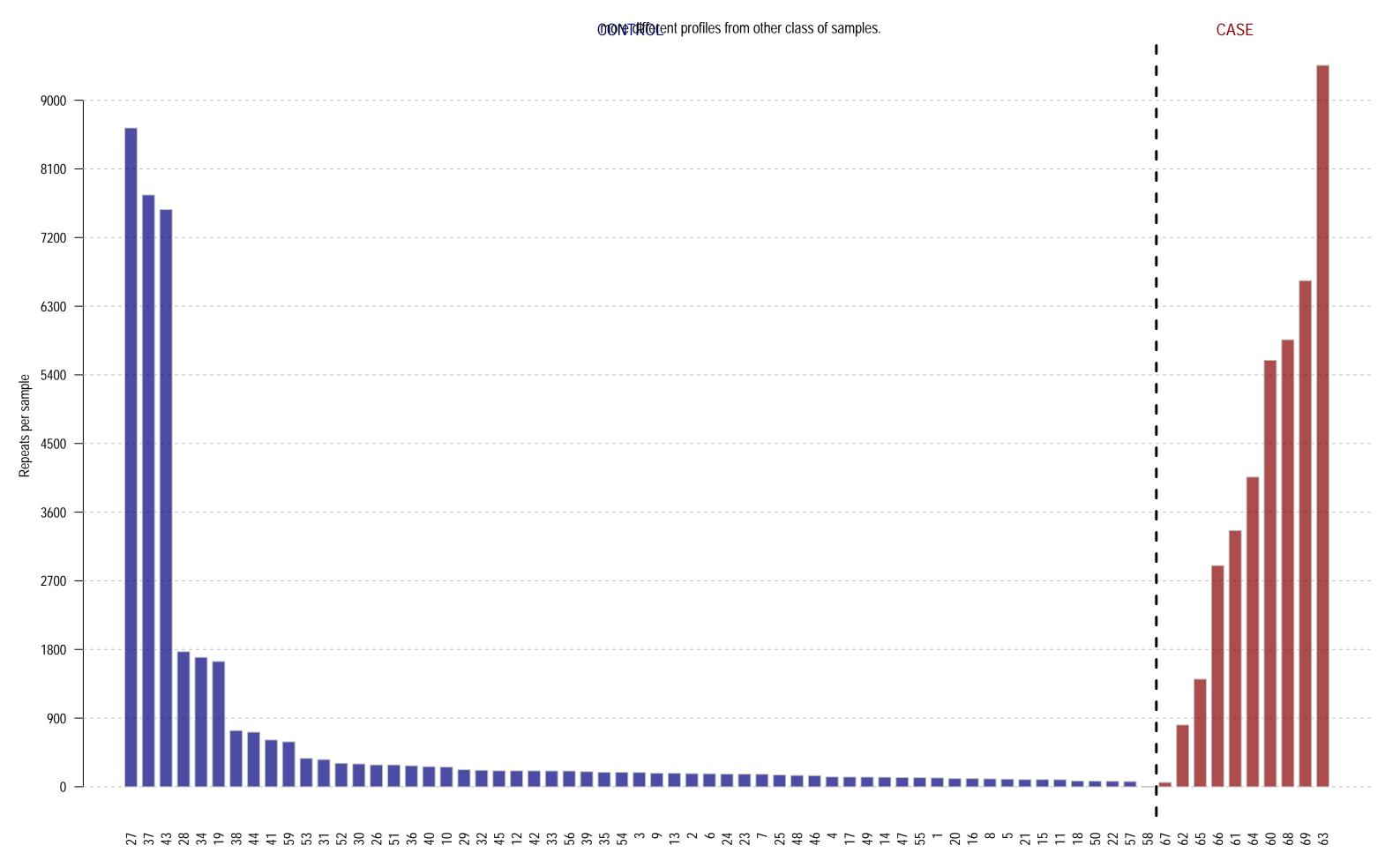
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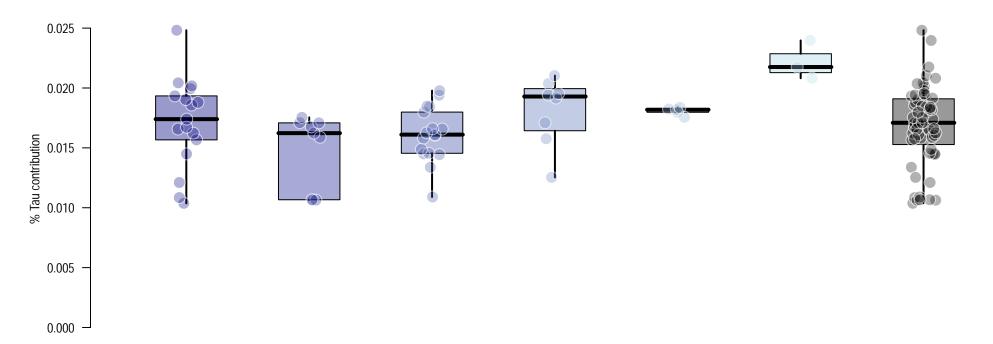
RDA: Differential events counted per sample

Samples with higher amounts of 'Repeats' resemble



CASE samples

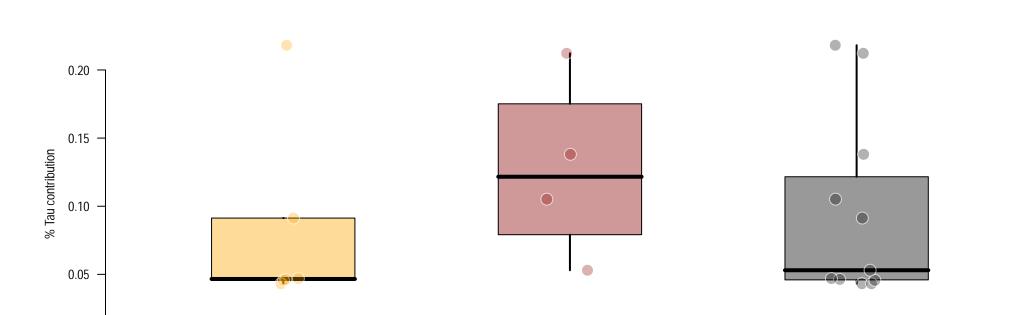
CONTROL samples



FERTILE Subclass 1 FERTILE Subclass 2 FERTILE Subclass 3 FERTILE Subclass 4 FERTILE Subclass 5 FERTILE Subclass 6 CONTROL samples

CASE samples

SIMPLE_INFERTILITY Subclass 2

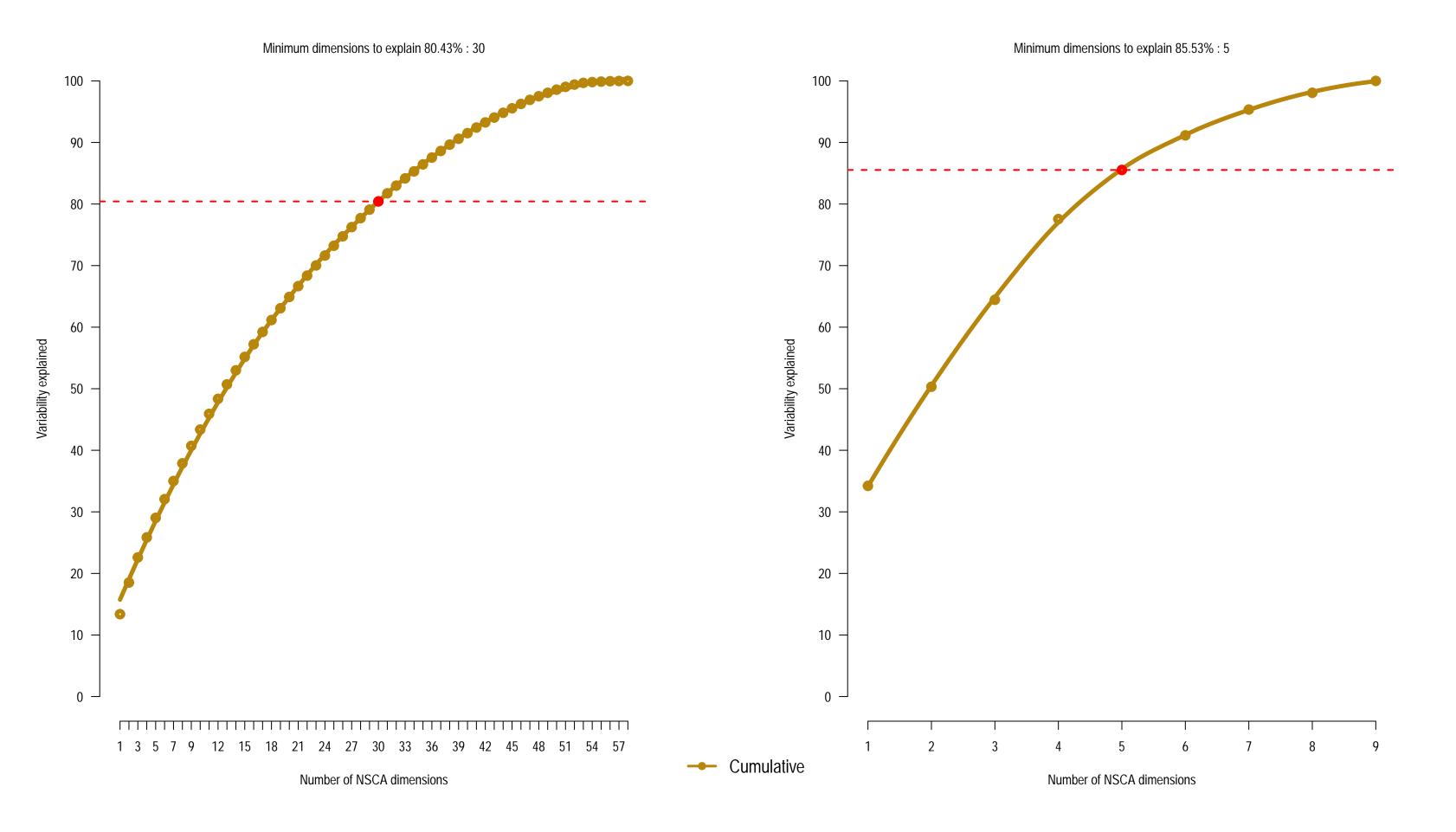


0.00

SIMPLE_INFERTILITY Subclass 1

Tau 0.00172 C.Statistic 462523.50317 p.value 0

Tau 0.00024 C.Statistic 65197.34344 p.value 0 Control samples Case samples

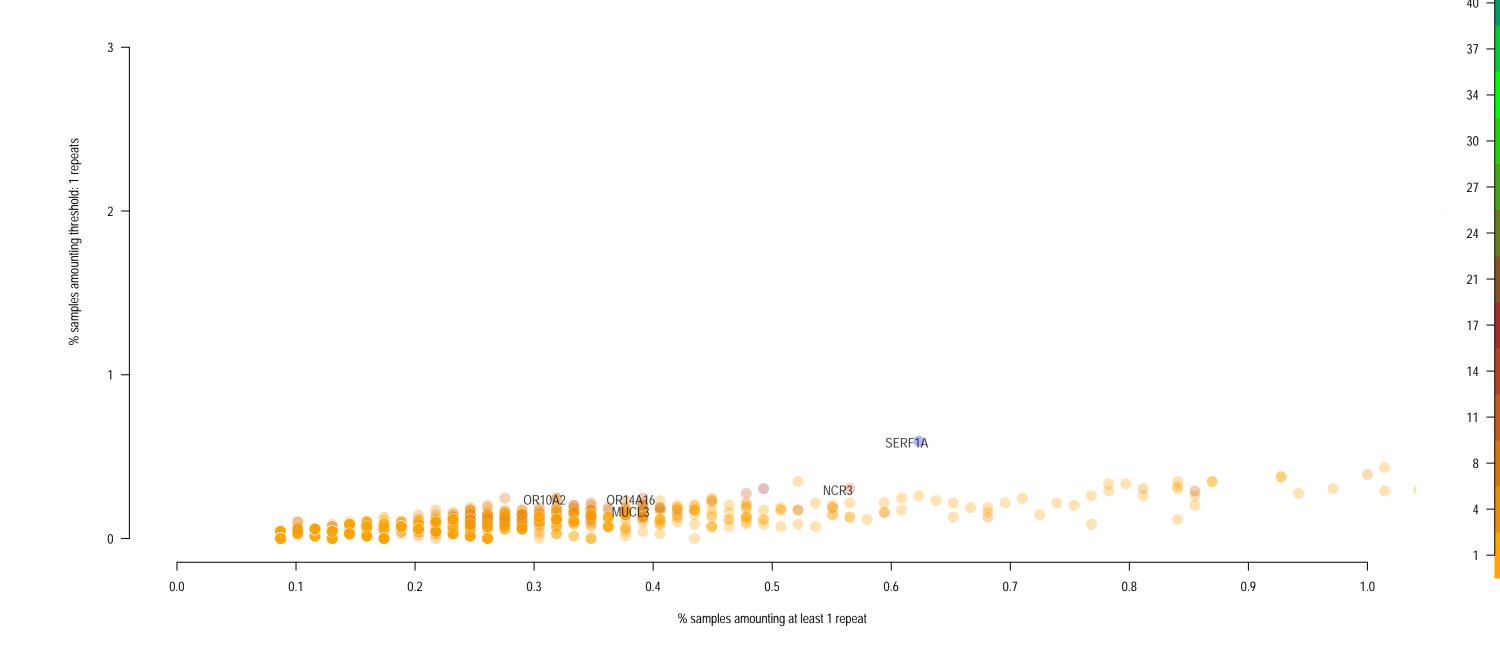


RDA: Top 50 feature signature, MAJORITIES ranking method was applied

Ranking	ID CEDE14	SYMBOL	UpDw			Standard.Chi.Square		Repeats.index	delta.signal		Dendrogram.group.Ctrl	•		Dendrogram.group.Case	•
1	SERF1A	SERF1A	UP	Majority	0.355	79.336	50	62.319	1.49776811430375	2.001	0	36.933	1.155	I	1.129
2	NCR3 TCHHL1	NCR3 TCHHL1	DOWN	Majority	0.355	34.078	11	56.522	-1.14825166909042	1.09 1.215	3 7	23.377 21.969	0.031	9	0.053
3 1		GUSBP2	DOWN	Majority	0.366	29.269	0	39.13	-1.23613135678476		1		0.031 0.685	9	0.064
4	GUSBP2		DOWN	Majority	0.306 0.385	8.73 17.908	ა ე	18.841 14.493	-1.63956290305801 0.709382471741705	1.361 2.291	3	47.463 57.243	0.085	1	3.718 0.192
3	GUSBP15 MOXD1	NotAssigned MOXD1	UP DOWN	Majority	0.363	8.164	2	13.043	-0.444836262552745	1.849	ິນ	65.323	1.578	Z	9.923
7	NotAssigned		NotAssigned	Majority Not Assigned			NotAssigned	NotAssigned		NotAssigned	NotAssigned		NotAssigned	C hothseld	
0		NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned			•	•	U	NotAssigned	NotAssigned NotAssigned
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10		NotAssigned	NotAssigned	NotAssigned	NotAssigned NotAssigned	NotAssigned NotAssigned	NotAssigned	NotAssigned		NotAssigned	NotAssigned NotAssigned		NotAssigned NotAssigned	NotAssigned	NotAssigned
10	NotAssigned		NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned		NotAssigned	NotAssigned	•	NotAssigned	NotAssigned	NotAssigned
11	NotAssigned		NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned			NotAssigned		NotAssigned	NotAssigned	NotAssigned
12	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned			NotAssigned	•	NotAssigned	NotAssigned	NotAssigned
13	NotAssigned		NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned			NotAssigned	•	NotAssigned	NotAssigned	NotAssigned
15	NotAssigned		NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned			NotAssigned		NotAssigned	NotAssigned	NotAssigned
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17	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned			NotAssigned		NotAssigned	NotAssigned	NotAssigned
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22			NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned		NotAssigned	NotAssigned		NotAssigned	NotAssigned	NotAssigned
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27	U		NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned		NotAssigned	NotAssigned	•	NotAssigned	NotAssigned	NotAssigned
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32	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned
33	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned
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37		NotAssigned			NotAssigned		NotAssigned	NotAssigned		NotAssigned		NotAssigned		NotAssigned	NotAssigned
38		NotAssigned		NotAssigned	NotAssigned		NotAssigned	NotAssigned		NotAssigned		NotAssigned		NotAssigned	NotAssigned
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40	NotAssigned	•	•	NotAssigned	NotAssigned	9	NotAssigned	NotAssigned		NotAssigned	•			NotAssigned	NotAssigned
41	NotAssigned			NotAssigned	NotAssigned		NotAssigned	NotAssigned		NotAssigned				NotAssigned	NotAssigned
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43	NotAssigned			NotAssigned	NotAssigned		NotAssigned	NotAssigned		NotAssigned	0	NotAssigned	•	NotAssigned	NotAssigned
44	NotAssigned	•	•	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned		NotAssigned	•	NotAssigned	•	NotAssigned	NotAssigned
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	NotAssigned			NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned		NotAssigned	NotAssigned			NotAssigned	NotAssigned
	NotAssigned		•	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned		NotAssigned	NotAssigned	•	NotAssigned	NotAssigned	NotAssigned
50	NotAssigned	เพอเคออเนเเซน	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	NotAssigned	เพอเพรรเนาเลน	NotAssigned	NULASSIGNEU	NotAssigned	เพอเสอรเซเเซน	NotAssigned	NotAssigned

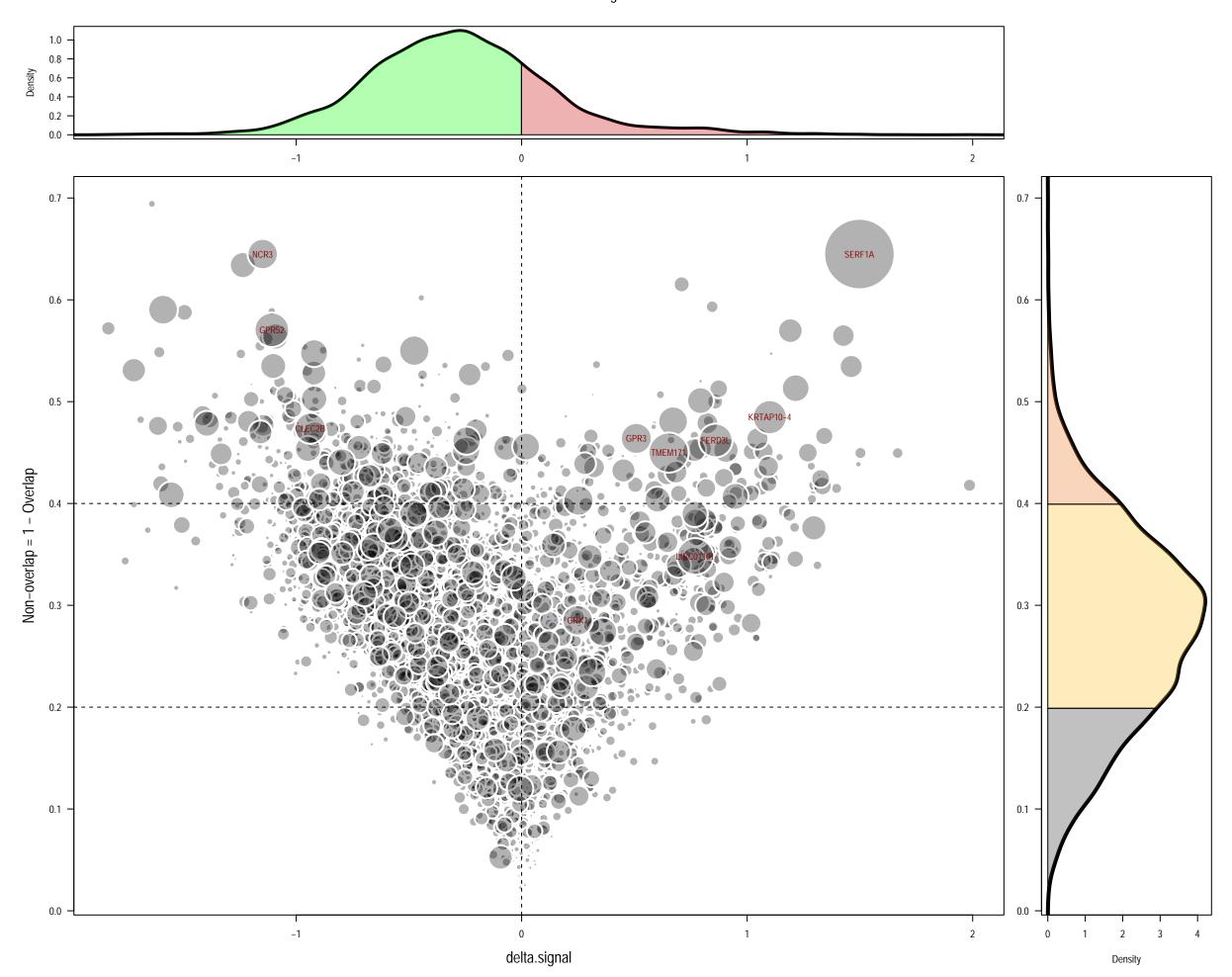
Ranking	ID NUTM1	SYMBOL NUTM1	UpDw DOWN		overlap.Ctrl.Case 0.746		Repeats	Repeats.index 8.696	delta.signal -0.80205637	sd.Ctrl Do	endrogram.group.Ctrl	h.Range.Ctrl 65.080	sd.Case D	endrogram.group.Case	h.Range.Case 16.484
1				Minority			1				I 1			4	
2	DYTN			Minority	0.662	4.985	1	8.696	-0.55174154	1.408	 	49.723	1.474	2	10.086
3	SEL1L2			Minority	0.735	8.471	2	11.594	-0.58186570	1.595	I 1	66.888	1.499	2	15.149
4	CFAP210	CFAP210	DOWN	Minority	0.667	8.640	2	13.043	-0.35537511	1.265	I	54.257	0.744	3	7.085
5	PRR5L	PRR5L	DOWN	Minority	0.705	6.528	2	11.594	-0.25888992	0.803	2	27.229	0.911	6	4.427
6	PHTF2			Minority	0.693	6.762	I	8.696	-0.32546299	0.757	4	25.224	0.427	2	3.190
/	ZIC2	ZIC2	DOWN	Minority	0.610	6.524	2	11.594	-0.17340546	1.357	2	56.331	1.427	6	4.715
8	SFRP5	SFRP5	DOWN	Minority	0.500	7.003		8.696	0.86816003	1.764	6	51.993	2.340	10	8.578
9	ABCC6P1	ABCC6P1	UP	Minority	0.743	4.833		8.696	0.09295986	0.396	9	11.898	0.565	/	1.098
10	LINC02431	LINC02431	DOWN	Minority	0.666	4.274		8.696	-0.89613295	1.887	1	74.291	1.816	5	19.776
11	XPA	XPA	UP	Minority	0.711	5.920		8.696	-0.02262502	0.482	10		0.613	8	0.532
12	ADGRG5	ADGRG5	DOWN	Minority	0.631	4.753		8.696	-1.27804227	1.491	3	41.735	2.312	6	11.866
13	C9orf43	C9orf43	DOWN	Minority	0.717	4.649		8.696	-0.28388848	0.894	I	35.818	0.886	4	8.002
14	SLC25A48-AS1	SLC25A48-AS1	DOWN	Minority	0.621	9.691	1	8.696	-0.65959799	1.914	2	91.334	1.659	2	12.988
15	C10orf62	C10orf62		Minority	0.673	6.460	2	11.594	-0.47339230	1.545	I	63.270	1.392	3	13.350
16	AGPAT1		DOWN	Minority	0.700	6.040	2	11.594	-0.23075618	0.594	3	23.403	0.736		6.133
17	CNN3-DT	NotAssigned	DOWN	Minority	0.726	5.612	I	8.696	-0.43720368	0.425	/	13.576	0.505	6	1.769
18	DNAI4		DOWN	Minority	0.734	5.791	2	11.594	-0.49739669	0.877	4	42.183	0.748	4	6.513
19	MYOC	MYOC	DOWN	Minority	0.721	9.760	2	33.333	-0.82576740	1.830	2	67.328	1.655	6	10.772
20	TRPM6	TRPM6	DOWN	Minority	0.712	5.615	2	11.594	-0.43147186	0.671		23.927	0.454	5	4.208
21	ANXA10			Minority	0.699	3.712	1	8.696	-0.43563533	1.483	1	51.584	1.469	3	12.683
22	NPTX1	NPTX1	DOWN	Minority	0.636	6.098	I	8.696	-1.06216709	1.444	3	51.976	1.691	6	10.039
23	SLC15A5	SLC15A5	DOWN	Minority	0.632	9.308	3	18.841	-1.03658866	1.557	1	53.110	1.218	2	8.075
24	TTC13	TTC13	DOWN	Minority	0.712	3.891	1	8.696	-0.27036643	0.466	1	12.739	0.307	9	0.928
25	LINC02389	LINC02389	DOWN	Minority	0.696	6.431	1	8.696	-0.60027191	0.950	1	39.591	0.761	10	2.905
26	NOS2	NOS2	DOWN	Minority	0.557	3.918	1	17.391	0.11922337	1.369	8	34.948	1.615	1	4.728
27	CPEB1-AS1	CPEB1-AS1	DOWN	Minority	0.689	3.823	1	8.696	-0.09400359	1.499	1	51.824	1.102	6	5.329
28	SLC43A3			Minority	0.678	7.302	2	11.594	0.04116651	1.561	8	52.394	1.481	6	0.133
29	SPACA9	SPACA9	DOWN	Minority	0.748	6.311	2	11.594	0.07721611	0.557	1	22.146	0.409	5	0.860
30	SNRNP70	SNRNP70	UP	Minority	0.734	4.088	I	8.696	0.22908074	0.259	9	6.630	0.316	8	0.162
31	WDR64	WDR64	DOWN	Minority	0.640	7.254	2	11.594	-0.90564566	1.436	1	60.721	1.360	3	14.935
32	MAB21L2	MAB21L2		Minority	0.656	9.997	I	8.696	-0.05150291	1.163	6	12.351	1.030	9	4.984
33	ABCA10	ABCA10	DOWN	Minority	0.705	6.387	2	11.594	-0.48798143	1.086]	43.085	0.813	3	7.723
34	SEC14L6	SEC14L6		Minority	0.663	4.585		8.696	0.34658936	1.152	1	31.024	1.666	10	6.130
35	PRRX1	PRRX1	DOWN	Minority	0.735	6.586		8.696	-0.04912337	1.569	l -	63.787	1.196	10	3.797
36	ACTA2		DOWN	Minority	0.726	4.046	1	8.696	0.01430755	0.794	/	29.057	1.363	10	3.813
37	AGFG1	AGFG I	DOWN	Minority	0.679	6.002	2		-0.30687596	0.728	4	37.544	0.512	4	5.004
38	KIF17		DOWN		0.734	6.316	2	11.594	-0.53250402	1.484	3	62.215	1.437	J 10	14.208
39	SNX20		DOWN		0.701	5.822	1		-0.66439809	1.924	8	63.046	1.889	10	5.840
40	CFAP61		DOWN		0.606		2		-0.74232761	1.487	I 1	64.268	1.122	3	12.532
41	WNT2		DOWN		0.725	5.886	2		-0.37422587	1.809		70.085	1.214	5	10.892
42	AIM2		DOWN		0.649	5.339	 		-0.54603251	1.640	 	65.751	1.409	5	14.566
43	SPMIP2		DOWN		0.655	6.029	1	8.696	-0.54594248	1.701	I	67.673	1.569	5	12.632
44 45	CYB5RL	CYB5RL		Minority	0.740		1	8.696	0.20651894	0.317	9	7.514	0.273	 	1.490
45	ANKRD36B	ANKRD36B		Minority	0.667	8.308	2	27.536	-0.56215731	1.055	l	42.707	0.729	4	7.124
46	NPL MC4412			Minority	0.712	7.700	2	47.826	-0.11901397	0.829	/	28.696	0.365	10	1.191
47	MS4A13	MS4A13		Minority	0.531	6.727	2		-0.27745649	1.766	1	62.256	1.340	5	12.152
48	ANKRD30A	ANKRD30A		Minority	0.708	4.044	1		-0.59830985	1.448	1	62.229	1.210	5	12.850
49	LINC01141	NotAssigned		Minority	0.631	5.722	1	8.696	-0.89095420	1.964	2	70.400	1.628	3	14.984
50	ZBTB26	7R1R70	DOWN	IVIIITOFITY	0.672	4.684	I	8.696	-0.47594083	0.803	4	44.593	0.872	4	5.738

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



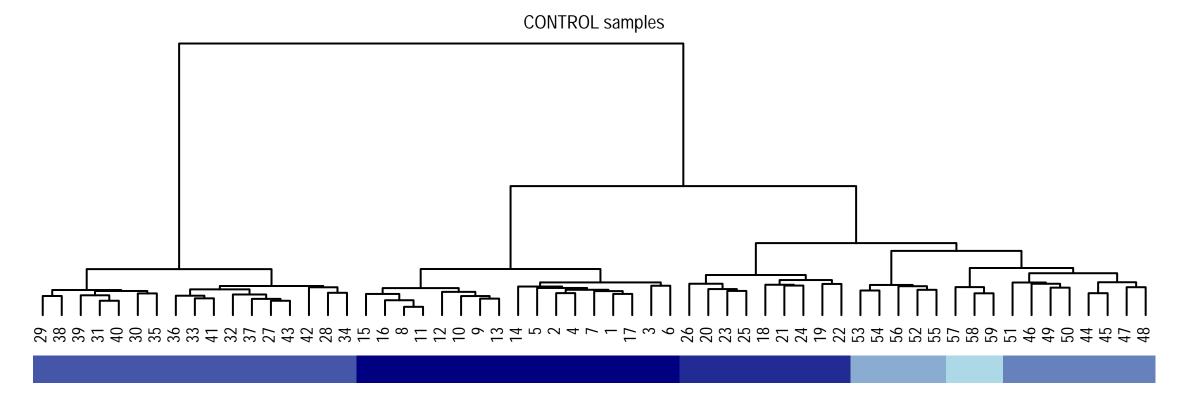
RDA: overlap Signal VS delta Signal plot

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

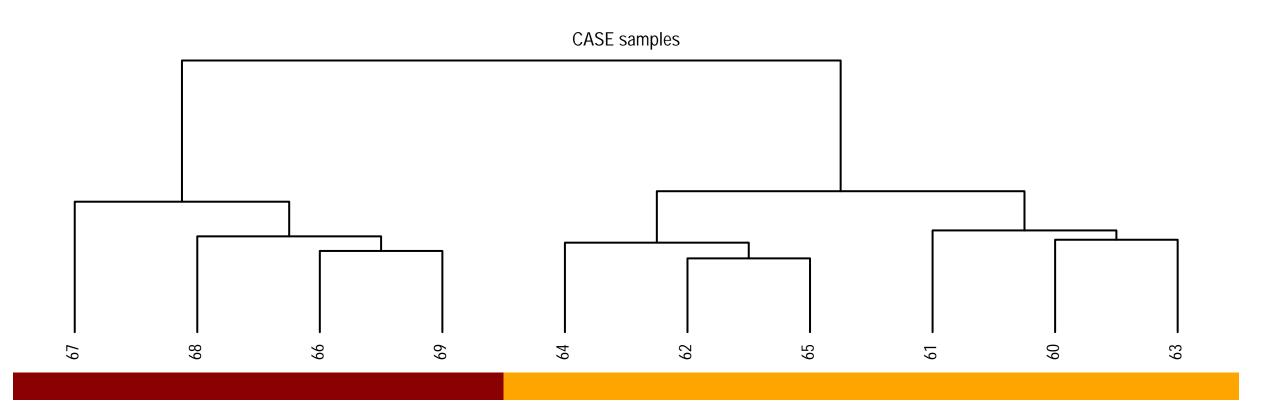


- ID provided by user
- Top-15 features based on Standard.Chi.Square
- Thresholds among different feature profiles
- COMPLETE features
- MAJORITY features
- MINORITY features
- MIXED features

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



Hubber's gamma coefficient for cutting dendrogram: 0.622



Hubber's gamma coefficient for cutting dendrogram: 0.716

Subclasses of samples found

- FERTILE Subclass 1
- FERTILE Subclass 2
- FERTILE Subclass 3
- FERTILE Subclass 4
- FERTILE Subclass 5
- FERTILE Subclass 6
- SIMPLE_INFERTILITY Subclass 1
- SIMPLE_INFERTILITY Subclass 2

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	Ranking.ScI4.Ctrl	h.Scl4.Ctrl	Ranking.Scl5.Ctrl	h.Scl5.Ctrl	Ranking.Scl6.Ctrl	h.Scl6.Ctrl	h.Range.Ctrl	Dendrogram.group.Ctrl	Dendrogram.order.Ctrl
HLA-DQB1	HLA-DQB1	29.936348	2976	-19.531127	605	-13.0565035	1504	28.70125970	1408	8.5272693	5886	-1.3773257	1	153.13818	172.66930	6	4486
WFDC21P NKX2-1	WFDC21P NKX2-1	17.335275 10.805975	5349 4840	-6.389238	1097	-9.6251185 -9.2486327	5103	8.91598834 3.26975470	350	16.7532883 -11.2453817	4297	4.2380397 -6.1600589	2	111.05918	120.68430 112.79036	0	4485
MIR9-2HG	MIR9-2HG	10.805975	4840 1842	-8.964946 -26.550284	1185 629	-9.2486327 -12.8396166	6141 3057	20.92131098	893 2516	-11.2453817 -5.2750099	3307 6532	0.2808331	3 10	101.54498 81.44336	107.99364	3 7	4196 5071
TERT	TERT	13.756876	2288	-20.550264 -23.899501	3265	4.2096924	4739	11.21421847	4768	2.0374129	328	-18.8073955	18	78.05768	101.95718	7	4958
GJD2	GJD2	17.214469	2502	-22.628680	3203 2	-39.1195223	2497	23.90678681	228	19.3759034	4427	4.0005328	63	62.30677	101.42629	7	5084
S1PR4	S1PR4	14.109416	5129	-7.554945	162	-19.3361431	6642	0.48823471	281	17.8583616	254	-20.0804420	11	81.21704	101.29748	5	4150
PODN	PODN	10.515975	3726	-14.961722	2814	-4.9210615	5767	4.88190081	997	-10.5505306	3265	6.2391978	5	85.57965	100.54137	5	4203
PHOX2B	PHOX2B	22.972503	3867	-14.106971	2488	-5.4911665	4539	12.24799486	953	-10.8190727	630	-15.4575807	7	84.48784	99.94542	5	4093
TNFRSF4	TNFRSF4	20.782351	1693	-27.339495	1055	-9.7920433	4203	14.03334005	43	27.2398122	104	-25.0373773	30	72.59231	99.93180	8	6160
SLC22A12	SLC22A12	24.693752	2768	-21.000384	65	-23.1734716	2660	23.15663489	4894	-1.8812992	746	-14.6297403	25	74.52635	97.69982	7	5088
C1QL2	C1QL2	12.918646	3212	-18.064546	901	-10.6863213	4897	10.19269184	4821	1.9717696	2143	-9.0185756	15	79.63140	97.69595	5	4094
PDX1	PDX1	12.147627	4136	-12.591086	2641	-5.2153688	5667	5.49139610	2462	-5.3625773	1903	-9.6179056	6	85.03132	97.62240	5	4181
SLC6A18	SLC6A18	13.942324	3755	-14.804548	2376	-5.7486976	5150	8.60144614	1033	-10.3567738	2561	-7.8594441	9	81.84725	96.65180	5	4177
SBF1P1	SBF1P1	21.976216	4637	-9.894302	1429	-8.2890630	6086	-3.49505889	1383	8.6471827	3867	-5.0773448	4	86.43934	96.33364	5	4202
NR2E1	NR2E1	14.739946	4915	-8.637803	305	-16.5934619	6028	3.74292883	1431	-8.4647355	2812	7.2741415	14	79.65499	96.24845	5	4147
OLIG2	OLIG2	17.752771	2663	-21.634210	9	-30.0974630	3282	19.61208753	6209	-0.4528773	483	16.7825908	53	64.95547	95.05293	/	5069
VGLL2 NKX2-2	VGLL2	8.719934	3785	-14.636901	1690	-7.4616716	5635	5.64266883	6250	0.4096553	4204	-4.4188816 -8.1479426	13	80.36554	95.00244	5	4184
GPIHBP1	NKX2-2 GPIHBP1	22.145183	1998	-25.721241	632	-12.8152712	2134	25.69498953	4629	-2.1967016	2454	-8.1479426 -5.4688076	37	68.89605	94.61729	/	5074
FOXB2	FOXB2	15.964712 11.425950	3234 4712	-17.851887 -9.528615	4975 1249	-1.9824619 -9.0044154	5134 5808	8.72471086 4.68317110	3661 6356	-3.3882736 0.3059118	3667 448		22 21	75.89532 76.14964	93.74720 93.40347		4187 4193
FUAB2 FLJ16779	FUAB2 FLJ16779	16.403965	2265	-9.526015 -24.071136	842	-9.0044154 -11.0144755	3794	16.52184177	1554	7.8598129	1714	-17.2538242 -10.2065456	38	68.87652	92.94765	: F	4100
PRRT4	PRRT4	7.236494	4610	-10.052837	1092	-9.6383295	4851	10.53354072	5511	1.2051861	100	-25.4705546	48	66.67156	92.14212	5 5	4111
NKX2-5	NKX2-5	18.476272	4304	-11.571906	2301	-5.9019032	6606	-0.74875862	4730	2.0808225	6609	0.1587024	12	80.40624	91.97815	5	4199
ZSCAN10	ZSCAN10	15.134476	3999	-13.374694	1802	-7.1293905	5396	7.10470737	4024	-2.8951082	1814	-9.8831991	17	78.37635	91.75104	5	4180
BHLHE22	BHLHE22	9.384731	4938	-8.545458	1651	-7.5773190	6535	1.23248382	1373	-8.6925826	6528	0.2857390	8	83.00072	91.69330	5	4045
SLC35D3	SLC35D3	23.030705	6555	-1.141007	657	-12.5745296	6379	-2.16932647	3237	-3.9588460	1803	-9.9157746	16	79.00827	91.58280	5	4195
HAND2	HAND2	9.677696	5392	-6.199129	1697	-7.4463046	6296	2.51904726	4088	-2.8155459	883	-13.7421308	19	77.80459	91.54672	5	4210
SLC25A48-AS1	SLC25A48-AS1	9.691498	1333	-29.157397	425	-14.9188435	43	37.74273577	809	11.7418019	2659	7.6389156	131	-53.59078	91.33352	2	2322
OR2K2	OR2K2	13.278428	1452	-28.620583	2407	-5.6624098	16	39.14599309	905	-11.1198027	512	16.5195328	149	-51.71499	90.86099	1	381
APLNR	APLNR	11.666939	4945	-8.502975	1888	-6.9052005	6693	0.11000683	2318	5.6454102	842	-13.9857659	20	76.72516	90.71092	5	4223
MMRN1	MMRN1	6.999974	103	-37.243943	4040	3.1039266	9	39.61345126	6433	0.2554655	601	15.7180880	161	-50.99277	90.60622	1	1679
SIGLEC1	SIGLEC1	4.045510	3758	-14.794537	46	-25.1120850	5020	9.43435124	179	20.6948465	1829	-9.8156728	52	65.43972	90.55181	8	6174
LHX3	LHX3	9.337117	2531	-22.411268	321	-16.2898598	4167	14.28592366	728	12.3745490	4114	-4.6198327	43	68.13528	90.54655	7	5080
GAL3ST3	GAL3ST3	18.620673	3067	-18.978758	4378	-2.7008977	4396	12.97954490	1211	-9.3419102	5914	1.3485475	32	71.50239	90.48115	5	4080
SLC9C2	SLC9C2	6.500812	743	-31.813393	3852	-3.3778033	158	35.65645218	3517	3.5555914	310	19.0772333	121	-54.03731 -75.10120	89.69376]	596
HMX2 C1QB	HMX2 C1QB	14.277204 11.925762	4267	-11.783367 -10.209609	466	-14.3851856 -45.7175953	5293	7.78484645 8.22289675	6448	0.2421782 43.8241943	1246	-12.0266098 -10.7358070	23	75.19120 41.43464	89.57639 89.54179	5	4197 6175
KCNG4	KCNG4	11.925762	4578 3446	-10.209609 -16.508072	15	-45.7175953 -29.4694269	5220 4719	8.22289675 11.34444039	3 171	43.8241943 20.8654089	1577 5757	-10.7358070 1.5947569	290 79	41.43464 59.96470	89.54179 89.43413	8 7	5078
MAG	MAG	9.275067	1407	-10.306072 -28.865434	4851	2.1370448	3514	18.23287675	5977	0.6977762	3291	-6.1975804	79 72	60.41822	89.28366	, 5	4104
KCNK4	KCNK4	9.003595	1331	-29.163017	5571	-1.2682264	3639	17.33018706	3272	3.8942509	4698	-3.4765190	82	59.43736	88.60038		5133
SOST	SOST	10.035143	5964	-3.834391	420	-14.9904816	6509	-1.42616107	5105	1.6483542	5289	-2.4229819	29	73.50933	88.49981	, 5	4240
NGB	NGB	25.294326	3788	-14.623707	1567	-7.8193382	5471	6.59539076	6039	0.6427138	2784	-7.3407994	27	73.79135	88.41506	5	4095
WNT16	WNT16	20.470029	2528	-22.430783	1159	-9.3866950	4280	13.60381115	978	10.6423461	5496	-2.0354173	50	65.64683	88.07761	5	4162
IL17C	IL17C	10.026021	5317	-6.562466	104	-21.0738736	6697	0.08790356	445	15.2653732	3142	-6.5183534	47	66.86131	87.93518	5	4163
NKX6-1	NKX6-1	9.855783	2875	-20.251514	300	-16.6359931	3429	18.67690292	2797	4.6625518	953	-13.4163292	46	67.25389	87.50540	5	4091
NME8	NME8	12.271904	1	-44.298782	6109	0.6816525	1	43.20154671	4057	2.8488112	1988	9.4208100	1926	-17.21251	87.50033	1	1060
MOXD2P	MOXD2P	12.173259	1869	-26.440981	485	-14.1977989	1922	26.76843809	42	27.3557546	263	19.8960215	77	-60.02380	87.37955	7	5326
LINC02398	LINC02398	5.120354	1543	-28.154670	3294	-4.1521218	339	34.18240080	3663	3.3879919	1073	12.7925791	135	-53.09408	87.27648	1	387
TMPRSS11B	TMPRSS11B	10.349993	2394	-23.336740	1308	-8.7274824	635	32.50089263	2300	5.6746611	2645	7.6582073	119	-54.36102	86.86191	1	377

Mean 'h' statistic per subclass within CASE samples

Top 50 discriminant features among subclasses found by DECO algorithm.

HALD DBS HALD DBS 29-936348 5921 0.4138556 1	ID	SYMBOL	Standard.Chi.Square	Ranking.Scl1.Case	h.Scl1.Case	Ranking.Scl2.Case	h.Scl2.Case	h Dango Caso	Dendrogram.group.Case	Dendrogram.order.Case
MARCO MARCO 21.0810/14 604 - 5.27446/0 2 3 43.03173 36.05/23 4 2120 ZNP716 ZNP716 22.410108 26 6 006/624 3 -30.065/3 36.03/23 4 2 2120 POSIN POSIN POSIN 24.02000 1 18.870585 8 20.02158 34.47051 9 5462 SREPPINE! SERPINE! 10.996046 2 18.8550095 10 20.33550 34.17051 9 5465 RBFP2/PI STROY						Ratikitiy.3Cl2.Case		h.Range.Case	Denurogram.group.case	9
ZNT16						ا ئ			4	
POSIN						2			9	
SFEPINFT SFEPINFT 10.966646 2 -13.8350095 10 20.33550 34.17051 9 5.665				207		3 0			4	
NSPF 15PO				I		8			9	
TSPO2 TSPO2 15.130867 298 5.9993028 6 -22.26102 4 2211 COLLA2 COLLA2 3.086655 3 -11.5379174 14 16.07917 291.0709 9 5.663 TUBAL3 TUBAL3 10.396559 191 6.2907927 7 -20.82174 27.11254 4 2229 FAMP9A 13.200451 184 6.3152472 9 -20.6976 26.97498 4 27.76 MIMT1 MIMT1 13.725837 202 6.2464866 11 -20.11230 26.35878 4 2116 COVD COVD 14.067035 4 -10.6803396 17 17.79799 75.48113 9 5.664 HCG4B 4.551944 5 9.9237345 16 -14.84385 24.76758 2 809 SLCDICI SLCDICI 5.596592 6 9.7860756 19 -14.84385 24.76758 2 809 SLCDICI SLCDICI 5.596592 6 9.7860756 19 -14.84385 24.76758 2 809 SLCDICI SLCDICI 5.596592 7 9 9.7860756 19 -14.84385 24.76758 2 809 SLCDICI SLCDICI 5.596592 7 9 9.7860756 19 -14.84385 24.76758 2 809 SLCDICI SLCDICI 15.596592 10 9.7860756 19 -14.84385 24.76758 2 809 SLCDICI SLCDICI 15.596592 10 9.7860756 19 -14.84385 24.76758 2 809 SLCDICI SLCDICI 15.596592 10 9.7860756 19 -14.84385 24.76758 2 809 SLCDICI SLCDICI 15.596592 10 9.7860756 19 -14.84385 24.76758 2 809 SLCDICI SLCDICI 15.596592 10 9.7860756 19 -14.84385 24.76758 2 809 SLCDICI SLCDICI 15.596592 10 9.7860756 19 -14.84385 24.76758 2 809 SLCDICI SLCDICI 15.596592 10 9.7860756 19 -14.84385 24.76758 2 809 SLCDICI SLCDICI 15.596592 10 9.7860756 19 -14.84385 24.76758 2 809 SLCDICI SLCDICI 15.596592 10 9.7860756 19 -14.84385 24.76758 2 809 SLCDICI SLCDICI 15.596592 10 9.7860756 19 -14.84385 24.76758 2 809 SLCDICI SLCDICI 15.596592 10 9.7860756 19 9.78		SERPINET		4707		10			9	
COLIA2 COLIA2 8086655 3 -11.5379174 14 16.62917 281.6709 9 546.670727 TOLIA3 10.399595 9191 6.290727 7 -20.60976 26.07408 4 2279 FAM99A FAM99A 13.230451 184 6.3152742 9 -20.60976 26.07408 4 2776 2771551 277		T00.00				4			4	
TUBALIS TUBALIS TUBALIS 10.396999 191 6.2907927 7 -20.82174 27.11254 4 22299				298					4	
FAM99A FAM99A 13.230451 184 6.3152242 9 - 20.07976 26.92498 4 2776 MMITI MMITI 1 31.725837 202 6.2464686 11 - 20.011230 6.263878 4 2716 CCN2 CN2 CN2 14.067035 4 - 10.6832396 17 14.79789 25.48113 9 5464 HCG48				3		14			9	
MIMIT						7			4	
CCN2 CCN2 L10.07035						9			4	
HGG4B				202					4	2116
SLOTICT SLOTICT 5,596/392 6 9.7860/956 19 -1.438879 2,417489 5 3395 LINC00502 15.612751 635 5,2240570 12 -18.29487 23.51893 4 22288 NKX2-1 10.08097/5 7 -9.5710172 23 13.88405 23.45507 9 5460 COL11A2 COL11A2 10.45654 10 9.2845075 22 -14.11916 23.40567 5 26.777 CCDC136 CDC136 10.700800 458 5.5492712 13 -17.71943 23.28670 4 2259 DCH52 DCH52 6.0789167 9 9.3992820 25 -13.57687 22.97161 3 -13.56857 22.97191 3 13.141 (0.0021 10.00021 6.021059 8 9.4003340 26 -13.556857 22.97191 3 13.141 (0.0021 10.00021 6.021059 8 9.4003340 26 -13.556857 22.97191 3 13.141 (0.0021 10.00021 6.021059 8 9.4003340 26 -13.556857 22.97191 3 13.141 (0.00021 6.021059 8 9.4003340 26 -13.556857 22.97191 3 13.141 (0.00001 6.00001		CCN2	14.067035	4	-10.6832396	17	14.79789	25.48113	9	5464
LINCO00502 15.612751 635 5.240570 12 -18.29487 22.51893 4 22.58 NXX2-1 NXX2-1 NXX2-1 10.645654 10 9.2845075 22 -14.11916 22.40367 5 26.77 C.CC.136 C.CD.C136 10.700800 458 5.5492712 13 -17.7143 22.28870 4 22.59 DCHS2 DCHS2 DCHS2 6.798167 9 9.3992820 25 -13.57687 22.97615 2 7.64 11.00021 6.021059 8 9.403340 25 -13.57687 22.97615 2 7.64 11.00021 6.021059 8 9.403340 25 -13.57687 22.97191 3 1314 11.00021 6.021059 8 9.403340 25 -13.56657 22.97191 3 1314 11.00021 6.021059 8 9.403340 25 -13.56657 22.97191 3 1314 11.00021 6.028438 14 8.7571143 28 -13.04788 21.80499 5 3140 11.00021 6.098438 14 8.7571143 28 -13.04788 21.80499 5 3140 11.000251 6.098438 14 8.7571143 28 -13.04788 21.80499 5 3140 11.000251 6.098438 14 8.7571143 28 -12.60258 21.74206 3 16.57 11.000251 6.0000666 16 8.7571144 30 -12.96369 21.70491 3 16.57 11.000251 6.0000666 16 8.712274 30 -12.96369 21.70491 3 16.57 11.0000251 6.0000666 16 8.712274 30 -12.96369 21.70491 3 16.57 11.000051 6.0000666 16 8.702275 21.0000666 21.0000666 21.0000666 21.0000666 21.0000666 21.00066			4.551944	5	9.9237345	16	-14.84385		2	809
NKX2-1 10,805975 7 -95710172 23 13,88405 22,45507 9 5406 COL1142 COL1142 10,645654 10 9,2845075 22 -14,11916 23,40367 5 2677 CCDC136 CCDC136 10,700800 458 5,5492712 13 -17,71943 23,26870 4 22,59 DCHS2 DCHS2 6,789167 9 9,3993820 25 -13,57687 2,97615 2 7,64 LINC00221 LINC00221 6,021059 8 9,4033340 26 -13,56657 22,97101 3 1314 ORZHI 10,804990 12 9,0138773 27 -13,28353 22,29740 2 87,6 JRKL-AS1 60,98438 14 9,7571143 28 -13,04788 21,80499 5 3140 HTR2A HTR2A 5,711840 15 8,7535307 29 -12,98653 21,74206 3 16,22 LINC00251 LINC00251 5,014666 16 8,7412274 30 -12,98659 21,74206 3 16,22 LINC00251 LINC00251 5,014666 16 8,7412274 30 -12,96369 21,70491 3 16,57 CCL14 CCL14 8,011274 18 8,7097515 32 -12,67246 21,38221 1 49,57 PRNT PRNT 8,253048 17 8,7097515 32 -12,67246 21,38221 1 49,57 PRNT PRNT 8,253048 17 8,7097515 32 -12,67246 21,38221 1 49,57 PRRT4 PRRT4 7,236494 20 -8,3910647 33 -12,51439 21,17265 3 1313 EREG EREG 10,226004 13 -8,794706 39 12,38005 21,18952 9 5461 PRRT4 PRRT4 7,236494 20 -8,3910647 37 12,41607 20,80714 9 5389 MIC7 MIC7 17,749270 3255 2,188349 5 5 22,98070 2,07087 9 5,622 ADRA1B ADRA1B 4,88035 23 -8,2709364 38 12,20223 20,67317 9 5300 SRD13 DR03 DR03 7,741516 24 8,2331822 42 -13,3945 20,53813 5 2,994 SRD19T1 6,942272 22 8,3173280 44 -12,10570 20,42303 3 1378 ERG GLIS GLIS 6,65257 29 8,0099151 41 -12,32523 20,64321 4 2,290 LINC00609 LINC00609 9,684004 21 8,33732904 41 -12,10570 20,42303 3 1378 ERG GLIS GLIS 6,65257 29 8,0099151 41 -12,32523 20,36451 3 3,387 FAM1708-AS1 FAM1708-AS1 5,81834 25 8,1256648 46 -11,96755 20,09322 4 2,3354 LINC02431 LINC02431 4,273629 26 8,1131569 51 -11,46491 19,65431 2 9,974 LINC02431 LINC02431 4,273629 26 8,1131569 51 -11,46491 19,56441 2 2,994 PRSS40A PRSS40A 4,748420 36 7,848680 58 -11,44376 19,19326 5 2,955 MACC1-AS1 MACC1-AS1 5,08082 39 7,6806352 55 6 -11,44576 19,19326 4 2,335 CLIS-CCL14 7,707258 31 7,746503 59 -11,24169 19,24369 4 2,335 CLIS-CCL14 7,707258 31 7,746503 59 -11,24169 19,24369 4 2,335 CLINC0080 LINC00800 1,18C0880 1,7559112 880 48,335666 21 -11,24002 19,03279 4 2	SLCO1C1	SLCO1C1	5.596392	6	9.7860956	19	-14.38879	24.17489	5	3395
COL11A2 COL11A2 10.465654 10 9.2845075 22 -14.11916 23.40367 5 2677 CCDC136 CCDC136 10.700800 458 5.5492712 13 -17.171943 23.28670 4 2259 DCHS2 DCHS2 DCHS2 6.798167 9 9.3992820 25 -13.57687 22.97615 2 764 LINC00221 1.000211 10.801990 12 9.0138773 27 -13.2853 22.29740 2 876 ALINC0021 10.801990 12 9.0138773 27 -13.2853 22.29740 2 876 ALINC0021 10.801990 12 9.0138773 27 -13.2853 22.29740 2 876 ALINC00251 LINC00251 5.014666 15 8.7513830 28 -13.04788 21.80499 5 3140 ALINC00251 LINC00251 5.014666 16 8.7412274 30 -12.96369 21.70491 3 1657 CCL14 CCL14 8.011274 18 8.7097515 32 -12.67246 21.38221 1 1 4.95 ALINC00251 TMFSF17 NFSF17 4.188712 19 8.658262 36 -12.51439 21.17265 3 13131 ALINC00251 ALINC00251 5.014666 16 8.7412274 30 -12.50425 21.17265 3 13131 ALINC00251 ALINC00251 5.014666 16 8.7412274 30 -12.50426 21.17265 3 13131 ALINC00251 ALINC00059 ALINC00069 ALINC00069 ALINC00069 ALINC0069 ALINC006	LINC00502		15.612751	635	5.2240570	12	-18.29487	23.51893	4	2228
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