

1- Raw data and preprocessing (removing non optimal reads and adapters)

Samps	mRNA	
	Raw reads	High quality reads
ASB-1	23525612	18088064
ASB-2	24800250	19053419
ASB-3	24025104	20827871
ASB-4	25421187	19428806
ASB-5	22825260	20576371

2- Mapping summary

Samp ASB-1

Reads:

Input : 18088064

Mapped : 17509245,95 (96.8% of input)

of these: 1260666 (7.2%) have multiple alignments (3125 have >20)

96.8% overall read mapping rate.

3- Gene expression level

gene id	gene short name	tss id	locus	length	coverage	Ctrl FPKM	Ctrl conf lo	Ctrl conf hi	Ctrl status	illness FPKM	illness conf lo	illness conf hi	illness status
ENSG00000000003	TSPAN6	-	X:100627108-100639991	-	-	669.361	0	144.005	OK	410.221	0	105.746	OK
ENSG00000000005	TNMD	-	X:100584801-100599885	-	-	0.0834172	0	0.438211	OK	0.0361766	0	0.356751	OK
ENSG000000000419	DPM1	-	20:50888915-50958555	-	-	300.407	0	741.791	OK	257.237	0	676.904	OK
ENSG000000000457	SCYL3	-	1:169662006-169894267	-	-	311.386	0	838.042	OK	184.172	0	613.364	OK
ENSG000000000460	Clorf112	-	1:169662006-169894267	-	-	0.979645	0	550.273	OK	0.851129	0	605.792	OK
ENSG000000000938	FGR	-	1:27612063-27635277	-	-	155.706	0	421.329	OK	288.644	0	737.512	OK
ENSG000000000971	CFH	-	1:196651877-196747504	-	-	640.956	0	147.242	OK	934.483	0	242.132	OK
ENSG00000001036	FUCA2	-	6:143450806-143511690	-	-	780.592	0	187.845	OK	102.307	0	28.639	OK
ENSG00000001084	GCLC	-	6:53497340-53617171	-	-	242.913	0	510.628	OK	115.721	0	455.438	OK
ENSG00000001167	NFYA	-	6:41026910-41099976	-	-	245.383	0	693.985	OK	196.403	0	577.461	OK
ENSG00000001460	STPG1	-	1:24307555-24472976	-	-	317.721	0	299.451	OK	320.092	0	230.205	OK
ENSG00000001461	NIPAL3	-	1:24307555-24472976	-	-	652.071	0	308.004	OK	574.213	0	253.334	OK
ENSG00000001497	LASIL	-	X:65512581-65534775	-	-	104.599	0	296.117	OK	144.289	0	384.568	OK
ENSG00000001561	ENPP4	-	6:46129992-46146699	-	-	0.162816	0	0.468233	OK	0.260538	0	0.680827	OK
ENSG00000001617	SEMA3F	-	3:49940006-50189075	-	-	480.332	0	163.653	OK	345.115	0	111.239	OK
ENSG00000001626	CFTR	-	7:117465783-117874139	-	-	0.427391	0	290.282	OK	0.0891335	0	165.836	OK
ENSG00000001629	ANKIB1	-	7:92246233-92401384	-	-	527.033	0	152.631	OK	329.713	0	107.625	OK
ENSG00000001630	CYP51A1	-	7:92112150-92246166	-	-	156.391	0	32.448	OK	101.541	0	235.466	OK
ENSG00000001631	KRIT1	-	7:92112150-92246166	-	-	844.209	0	281.127	OK	528.837	0	232.046	OK

4- Isoforms expression level

tracking id	gene id	gene short name	locus	length	coverage	Ctrl FPKM	Ctrl conf lo	Ctrl conf hi	Ctrl status	illness FPKM	illness conf lo	illness conf hi	illness status
ENST0000000233	ENSG00000004059	ARF5	7:127580617-127602144	1103	-	124.193	0	354.471	OK	173.322	0	512.358	OK
ENST0000000412	ENSG00000003056	M6PR	12:8681599-8949955	2756	-	0.0715332	0	326.122	OK	10.827	0	143.618	OK
ENST0000000442	ENSG00000173153	ESRRA	11:64305571-64318084	2215	-	136.022	0	647.975	OK	125.164	0	654.346	OK
ENST00000001008	ENSG00000004478	FKBP4	12:1946053-2941140	3732	-	237.321	0	697.942	OK	194.532	0	558.125	OK
ENST00000001146	ENSG00000003137	CYP26B1	2:72129237-72148038	4732	-	0.767946	0	316.584	OK	0.744858	0	362.228	OK
ENST00000002125	ENSG00000003509	NDUFAF7	2:37167819-37324808	2176	-	12.063	0	807.799	OK	0.819251	0	761.154	OK
ENST00000002165	ENSG00000001036	FUCA2	6:143450806-143511690	2356	-	761.853	0	18.289	OK	101.135	0	282.775	OK
ENST00000002501	ENSG00000003249	DBNDD1	16:90004864-90047773	2079	-	453.856	0	176.283	OK	171.387	0	781.435	OK
ENST00000002596	ENSG00000002587	HS3ST1	4:11393149-11429765	8031	-	0.377232	0	102.957	OK	0.501827	0	126.367	OK
ENST00000002829	ENSG00000001617	SEMA3F	3:49940006-50189075	3802	-	131.557	0	733.828	OK	527.065	0	344.405	OK
ENST00000003084	ENSG00000001626	CFTR	7:117465783-117874139	6132	-	0.0762219	0	0.437654	OK	0.0189802	0	0.162155	OK
ENST00000003100	ENSG00000001630	CYP51A1	7:92112150-92246166	3210	-	155.208	0	317.627	OK	101.055	0	231.984	OK
ENST00000003302	ENSG00000048028	USP28	11:113797873-113875570	4669	-	141.536	0	386.325	OK	145.346	0	342.667	OK
ENST00000003583	ENSG00000001460	STPG1	1:24307555-24472976	2544	-	0.461837	0	563.012	OK	0.73362	0	723.954	OK
ENST00000003912	ENSG00000001461	NIPAL3	1:24307555-24472976	5481	-	419.204	0	176.808	OK	356.048	0	14.008	OK
ENST00000004103	ENSG00000002933	TMEM176A	7:150791284-150805120	1261	-	116.758	0	907.053	OK	28.788	0	208.225	OK
ENST00000004531	ENSG00000003989	SLC7A2	8:17497087-17570573	7560	-	293.342	0	629.332	OK	0.103984	0	0.597489	OK
ENST00000004982	ENSG00000004776	HSPB6	19:35754565-35758079	1457	-	106.742	0	29.544	OK	689.879	0	211.392	OK
ENST00000005082	ENSG00000005801	ZNF195	11:3336720-3379222	2021	-	0.334227	0	189.393	OK	0.0854677	0	0.754624	OK

5- Gene comparison level

gene id	Species	Samp1	Samp2	status	value 1	value 2	log2 fold change	test stat	p value	q value	significant	Gene name	GO
ENSG00000002746	Homo sapiens	Ctrl	Illness	OK	0,176737	1,29609	2,8745	0,604771	5,00E-05	0,0121225	yes	HECW1	[C]GO:0005737: cytoplasm
ENSG000000005844	Homo sapiens	Ctrl	Illness	OK	1,43249	6,76901	2,24042	0,71649	1,00E-04	0,0194523	yes	ITGAL	[C]GO:0016020: membrane
ENSG000000006118	Homo sapiens	Ctrl	Illness	OK	7,84138	34,002	2,11644	0,442898	4,00E-04	0,0477971	yes	TMEM132A	[C]GO:0016020: membrane
ENSG000000006747	Homo sapiens	Ctrl	Illness	OK	3,67825	0,361575	-3,34665	-1,45531	5,00E-05	0,0121225	yes	SCIN	[C]GO:0005737: cytoplasm
ENSG000000008394	Homo sapiens	Ctrl	Illness	OK	61,3804	3,68535	-4,0579	-1,93261	5,00E-05	0,0121225	yes	MGST1	[C]GO:0016020: membrane
ENSG000000008517	Homo sapiens	Ctrl	Illness	OK	11,7367	89,55	2,93167	1,74939	5,00E-05	0,0121225	yes	IL32	[C]GO:0016020: membrane
ENSG000000011332	Homo sapiens	Ctrl	Illness	OK	0,572738	3,12539	2,44809	1,03228	5,00E-05	0,0121225	yes	DPF1	[C]GO:0005634: nucleus
ENSG000000013725	Homo sapiens	Ctrl	Illness	OK	0,809296	6,56065	3,0191	1,38905	5,00E-05	0,0121225	yes	CD6	[C]GO:0016020: membrane
ENSG000000025708	Homo sapiens	Ctrl	Illness	OK	222,884	1000,82	2,16682	1,00255	2,00E-04	0,0315642	yes	TYMP	[F]GO:0016740: transferase activity
ENSG000000030419	Homo sapiens	Ctrl	Illness	OK	3,58887	0,589735	-2,60539	-1,12689	1,00E-04	0,0194523	yes	IKZF2	[F]GO:0003676: nucleic acid binding
ENSG000000041982	Homo sapiens	Ctrl	Illness	OK	3,08263	14,2536	2,2091	0,630429	0,00015	0,025347	yes	TNC	[C]GO:0005615: extracellular space
ENSG000000043355	Homo sapiens	Ctrl	Illness	OK	0,387004	5,12253	3,72644	1,23712	5,00E-05	0,0121225	yes	ZIC2	[F]GO:0003676: nucleic acid binding
ENSG000000049246	Homo sapiens	Ctrl	Illness	OK	8,12939	0,74761	-3,44279	-1,67101	5,00E-05	0,0121225	yes	PER3	[P]GO:0032922: circadian regulation
ENSG000000049540	Homo sapiens	Ctrl	Illness	OK	3,07271	11,9929	1,9646	0,932282	1,00E-04	0,0194523	yes	ELN	[F]GO:0005201: extracellular matrix structural
ENSG00000006294	Homo sapiens	Ctrl	Illness	OK	0,226144	1,25972	2,4778	1,18443	4,00E-04	0,0477971	yes	CD84	[C]GO:0016020: membrane
ENSG000000067445	Homo sapiens	Ctrl	Illness	OK	1,65871	0,488483	-1,76368	-0,683962	5,00E-05	0,0121225	yes	TRO	[P]GO:0007155: cell adhesion
ENSG000000068831	Homo sapiens	Ctrl	Illness	OK	2,36529	8,06855	1,77029	0,928779	3,00E-04	0,0418225	yes	RASGRP2	[C]GO:0005737: cytoplasm
ENSG000000078898	Homo sapiens	Ctrl	Illness	OK	0	1,57284	Inf	NA	5,00E-05	0,0121225	yes	BPIFB2	[C]GO:0005615: extracellular space
ENSG000000079102	Homo sapiens	Ctrl	Illness	OK	0,308487	0,763669	1,30774	0,266422	5,00E-05	0,0121225	yes	RUNX1T1	[C]GO:0005634: nucleus

6- Isoform comparison level

test id	gene id	gene	locus	Samp1	Samp2	status	value 1	value 2	log2FC	test stat	p value	q value	significan t	GO
ENST00000471527	ENSG00000002746	HECW1	7:42954134-43566001	Ctrl	Illness	OK	0,0336265	1,04503	4,9578	0,581373	0,12655	0,999305	YES	[C]GO:0005737: cytoplasm
ENST00000005286	ENSG00000006118	TMEM132A	11:60913165-60952530	Ctrl	Illness	OK	1,5292	4,05481	1,40686	0,235845	0,25425	0,999305	YES	[C]GO:0016020: membrane
ENST00000453848	ENSG00000006118	TMEM132A	11:60913165-60952530	Ctrl	Illness	OK	0,551132	1,40229	1,34731	0,128274	0,35235	0,999305	YES	[C]GO:0016020: membrane
ENST00000535480	ENSG00000006118	TMEM132A	11:60913165-60952530	Ctrl	Illness	OK	3,44518	19,7845	2,52172	0,331998	0,03835	0,999305	YES	[C]GO:0016020: membrane
ENST00000536409	ENSG00000006118	TMEM132A	11:60913165-60952530	Ctrl	Illness	OK	0,354078	2,56214	2,85521	0,0974142	0,1761	0,999305	YES	[C]GO:0016020: membrane
ENST00000538090	ENSG00000006118	TMEM132A	11:60913165-60952530	Ctrl	Illness	OK	0,208887	1,18962	2,5097	0,0770938	0,2877	0,999305	YES	[C]GO:0016020: membrane
ENST00000540112	ENSG00000006118	TMEM132A	11:60913165-60952530	Ctrl	Illness	OK	0,897873	3,6353	2,01749	0,266563	0,0566	0,999305	YES	[C]GO:0016020: membrane
ENST00000519209	ENSG00000006747	SCIN	7:12570124-12660179	Ctrl	Illness	OK	3,02512	0,238892	-3,66256	-1,96323	0,05775	0,999305	YES	[C]GO:0005737: cytoplasm
ENST00000376335	ENSG00000043355	ZIC2	13:99981771-99986773	Ctrl	Illness	OK	0,149812	3,76236	4,65041	2,4622	0,0003	0,4834	YES	[F]GO:0003676: nucleic acid binding
ENST00000468291	ENSG00000043355	ZIC2	13:99981771-99986773	Ctrl	Illness	OK	0,0685276	1,278	4,22106	0,43236	0,2047	0,999305	YES	[F]GO:0003676: nucleic acid binding
ENST00000361923	ENSG00000049246	PER3	1:7784319-7853512	Ctrl	Illness	OK	2,63963	0,188706	-3,80612	-1,19176	0,09545	0,999305	YES	[P]GO:0032922: circadian regulation of gene expression
ENST00000377532	ENSG00000049246	PER3	1:7784319-7853512	Ctrl	Illness	OK	1,72801	0,361797	-2,25586	-0,867426	0,29305	0,999305	YES	[P]GO:0032922: circadian regulation of gene expression
ENST00000614998	ENSG00000049246	PER3	1:7784319-7853512	Ctrl	Illness	OK	2,6888	0,101788	-4,72332	-1,02545	0,09125	0,999305	YES	[P]GO:0032922: circadian regulation of gene expression
ENST00000357036	ENSG00000049540	ELN	7:74027788-74069907	Ctrl	Illness	OK	0,351278	2,14869	2,61277	0,689726	0,29595	0,999305	YES	[F]GO:0005201: extracellular matrix

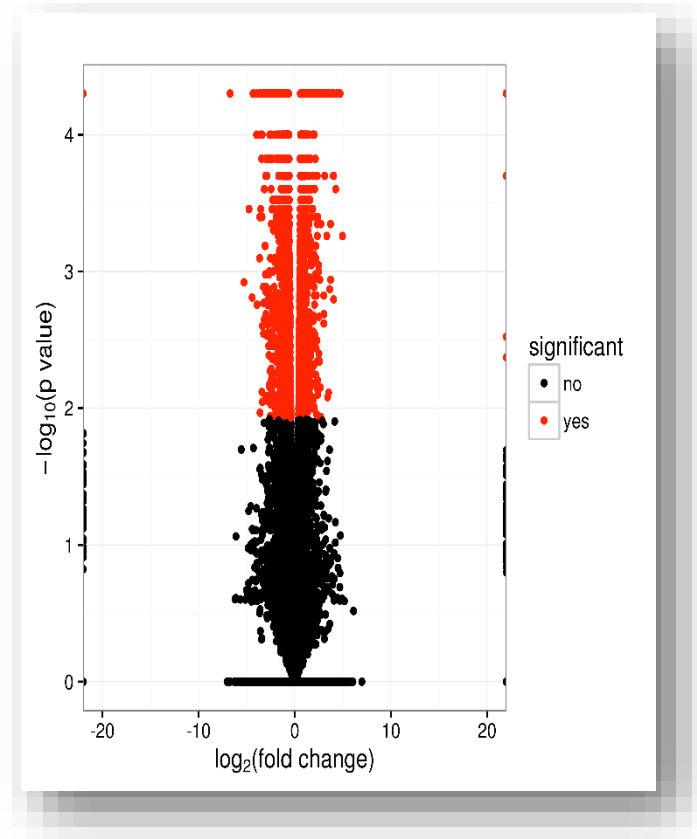
														structural constituent
ENST00000380584	ENSG00000049540	ELN	7:74027788-74069907	Ctrl	Illness	OK	0,677909	2,60281	1,94091	0,681538	0,2327	0,999305	YES	[F]GO:0005201 : extracellular matrix structural constituent
ENST00000458204	ENSG00000049540	ELN	7:74027788-74069907	Ctrl	Illness	OK	0,227785	2,6016	3,51365	0,929676	0,1751	0,999305	YES	[F]GO:0005201 : extracellular matrix structural constituent

7- Summary Comparison Results

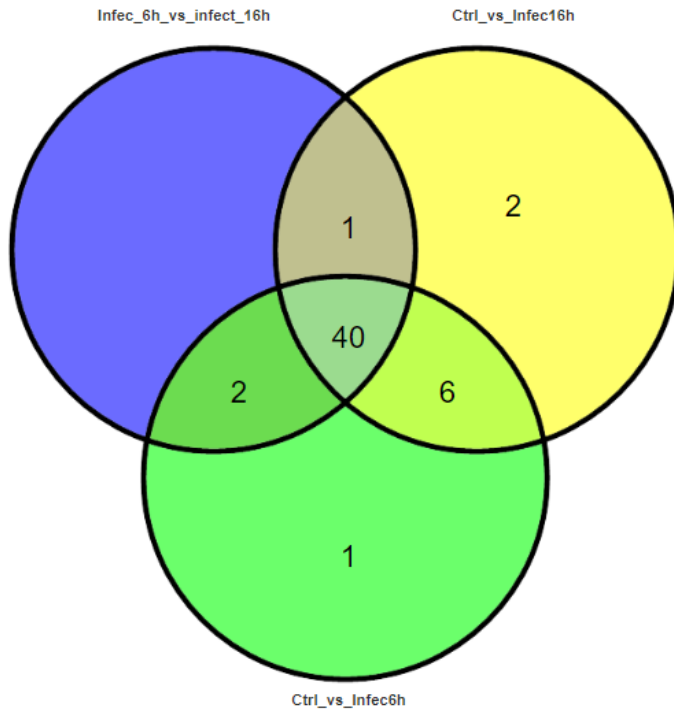
Comp.	Num. gene dif	Num. gene Down	Num. gene Up
Ctrl vs Infect 6h	7746	3429	4317
Infect 6h vs Infect 16h	4065	1935	2130
Ctrl vs Infect 16h	7332	4752	2580

8- Graphical representations

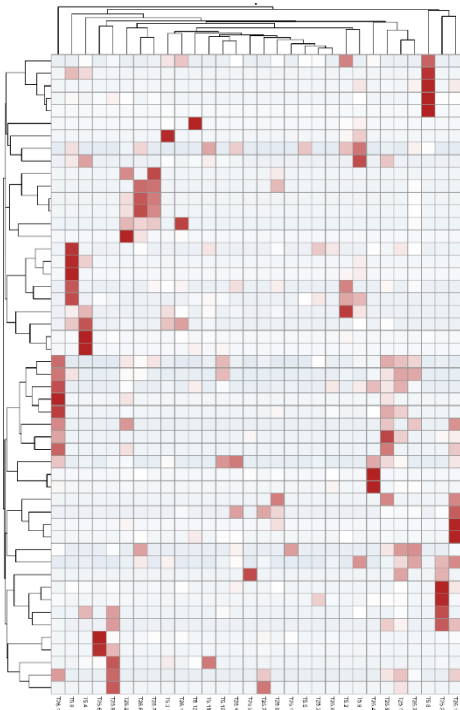
a) Vulcano Plot



b) Venn



c) Heatmap



d) PCA

