

## Appendix

RZPD ID	P- value	Fold change	Gene symbol	RZPD ID	P- value	Fold change	Gene symbol
A versus V				68	0.00595	1.4	
				69	0.009918	1.4	
				70	0.002294	1.5	
1	0.003479	1.4		71	0.000775	1.5	
2	0.005922	1.4		72	0.0014	1.4	
3	0.000548	1.6		73	0.000509	1.6	
4	0.008027	1.4		74	0.003725	1.5	
5	0.002279	1.5		75	0.006043	1.5	
6	0.003001	1.4		76	0.00847	1.5	FLJ10352
7	0.00893	1.4		77	0.006582	1.4	
8	0.004752	1.4		78	0.008548	1.4	
9	0.004291	1.4		79	0.009305	1.5	
10	0.00274	1.5		80	0.004848	1.5	
11	0.001109	1.5		81	0.004339	1.5	
12	0.008877	1.4		82	0.006789	1.5	
13	0.008123	1.4		83	0.00549	1.4	
14	0.002009	1.5		84	0.004066	1.4	AD034
15	0.009278	1.4		85	0.001824	1.4	
16	0.008358	1.5		86	0.002616	1.4	
17	0.006186	1.5		87	0.000007	1.8	
18	0.004978	1.5		88	0.000571	1.7	
19	0.005517	1.4		89	0.000099	1.8	
20	0.006927	1.4		90	0.000927	1.6	
21	0.003164	1.5		91	0.000151	1.6	
22	0.002349	1.5		92	0.004675	1.5	
23	0.000569	1.5		93	0.002691	1.7	FLJ20287
24	0.002062	1.5		94	0.007742	1.4	
25	0.007965	1.3		95	0.005985	1.4	MGEA5
26	0.003159	1.4		96	0.000566	1.5	
27	0.009275	1.4		97	0.00024	1.7	
28	0.005288	1.5		98	0.00228	1.6	
29	0.008493	1.4		99	0.001797	1.5	
30	0.002646	1.5	NFIB	100	0.001345	1.5	
31	0.006154	1.4		101	0.003825	1.6	
32	0.001229	1.5		102	0.002234	1.6	
33	0.003354	1.5		103	0.001407	1.5	
34	0.003745	1.4		104	0.001853	1.6	
35	0.002796	1.5		105	0.008884	1.3	
36	0.008588	1.5		106	0.005679	1.4	RNF27
37	0.002507	1.5		107	0.000531	1.6	
38	0.005886	1.4		108	0.000398	1.5	
39	0.006715	1.4		109	0.004486	1.4	
40	0.003264	1.5	PCOLCE	110	0.009607	1.5	
41	0.009123	1.4		111	0.006592	1.4	
42	0.000139	1.5		112	0.007759	1.5	
43	0.002967	1.5		113	0.003846	1.5	SIAT9
44	0.007415	1.4		114	0.004455	1.6	
45	0.008392	1.4		115	0.001392	1.5	
46	0.003277	1.4		116	0.004089	1.5	
47	0.009585	1.3		117	0.009834	1.5	
48	0.002887	1.4		118	0.006306	1.6	
49	0.009802	1.4		119	0.005897	1.4	
50	0.0052	1.4		120	0.007032	1.5	FLJ10808
51	0.009149	1.5		121	0.005929	1.5	
52	0.007472	1.4		122	0.008676	1.5	
53	0.003788	1.4		123	0.0017	1.4	BCL7A
54	0.009201	1.3	FLJ32631	124	0.008237	1.4	
55	0.009786	1.3		125	0.002777	1.4	CST3
56	0.00943	1.4		126	0.000962	1.5	
57	0.009984	1.4	ST13	127	0.002114	1.6	
58	0.007425	1.4		128	0.00023	1.7	
59	0.001922	1.5		129	0.002927	1.4	
60	0.007287	1.4	SCD	130	0.002177	1.5	
61	0.009714	1.4		131	0.001688	1.4	
62	0.006099	1.5		132	0.000522	1.5	
63	0.008318	1.5		133	0.000247	1.5	
64	0.005275	1.4		134	0.000555	1.6	
65	0.006616	1.5		135	0.008518	1.4	
66	0.008623	1.4		136	0.001793	1.5	
67	0.003794	1.4		137	0.002564	1.4	
				138	0.000953	1.6	

RZPD ID	P- value	Fold change	Gene symbol	RZPD ID	P- value	Fold change	Gene symbol
139	0.00012	1.6		210	0.005256	1.7	
140	0.000633	1.5		211	0.007288	1.7	
141	0.000242	1.6		212	0.004863	1.6	
142	0.000169	1.6		213	0.004442	1.6	
143	0.004718	1.5		214	0.004195	1.7	
144	0.002891	1.5		215	0.008783	1.7	
145	0.003776	1.4		216	0.009966	1.6	FSTL1
146	0.00131	1.7	IL10RB	217	0.004216	1.8	
147	0.001428	1.6	EEF1A1	218	0.009589	1.7	
148	0.000195	1.7		219	0.005482	1.7	
149	0.000637	1.7		220	0.007805	1.6	
150	0.000528	1.6		221	0.003447	1.8	
151	0.000568	1.6		222	0.003494	1.7	
152	0.000148	1.6		223	0.003476	1.6	
153	0.001948	1.6		224	0.00786	1.7	
154	0.00007	1.8		225	0.006082	1.6	
155	0.000611	1.7		226	0.008254	1.6	
156	0.002957	1.5	EEF1A1	227	0.006648	1.5	TNFRSF6
157	0.002698	1.6		228	0.003726	1.6	
158	0.009726	1.6		229	0.004743	1.5	LOC64116
159	0.001955	1.6		230	0.006165	1.5	
160	0.0039	1.7		231	0.003401	1.5	
161	0.004974	1.6	CYYR1	232	0.008621	1.4	
162	0.00941	1.6		233	0.008653	1.5	
163	0.005903	1.6		234	0.008187	1.5	
164	0.001353	1.7		235	0.004733	1.4	
165	0.001162	1.6		236	0.008954	1.5	
166	0.008202	1.6		237	0.009843	1.6	
167	0.009263	1.6	RCD-8	238	0.009875	1.5	
168	0.006366	1.6		239	0.001227	1.6	MGC13038
169	0.006225	1.6		240	0.005205	1.7	
170	0.00381	1.6	INE2	241	0.001174	1.9	CUBN
171	0.009262	1.6		242	0.002185	1.8	
172	0.005954	1.7	PTDSS2	243	0.00942	1.7	
173	0.005884	1.6		244	0.001849	1.9	
174	0.004264	1.7		245	0.002108	1.7	
175	0.001276	1.6	ALDH7A1	246	0.00804	1.5	
176	0.002457	1.6		247	0.004381	1.7	
177	0.007043	1.6	LOC55831	248	0.00404	1.8	FLJ13153
178	0.005206	1.5	MOBP	249	0.006624	1.7	HSPC072
179	0.002963	1.8		250	0.009895	1.7	KIAA0144
180	0.009542	1.7		251	0.005285	1.8	
181	0.005451	1.7		252	0.002139	1.8	
182	0.004939	1.7		253	0.005445	1.5	
183	0.004911	1.7		254	0.00163	1.7	SNTB1
184	0.009182	1.7		255	0.006573	1.7	
185	0.009036	1.7		256	0.008213	1.4	
186	0.008912	1.7		257	0.001555	1.5	
187	0.008442	1.6		258	0.006608	1.4	
188	0.009188	1.7		259	0.002415	1.7	FADS1
189	0.004764	1.8		260	0.008841	1.4	
190	0.006831	1.7	PLS1	261	0.005249	1.5	DF
191	0.00474	1.7	KIAA0923	262	0.001588	1.6	
192	0.004851	1.7		263	0.000543	1.7	TAGLN
193	0.007074	1.7	TACC2	264	0.000744	1.8	
194	0.006707	1.6		265	0.000003	2.3	DKK3
195	0.008585	1.6		266	0.000344	1.7	PAM
196	0.005473	1.7		267	0.001675	2	
197	0.007492	1.6	KIAA1548	268	0.0018	2.1	RECQL4
198	0.003479	1.7		269	0.007369	2.1	
199	0.007446	1.6	KIAA0534	270	0.008883	1.6	
200	0.002574	1.7		271	0.000007	2.6	LOC58498
201	0.009974	1.6		272	0.000002	3	MYL4
202	0.007992	1.6		273	0.007554	1.7	
203	0.007322	1.6		274	0.002475	0.7	
204	0.007729	1.6	CARD11	275	0.000773	0.7	PFAS
205	0.002006	1.8	PANX1	276	0.000538	0.6	
206	0.001095	1.7	MGC2731	277	0.007538	0.7	
207	0.009742	1.7		278	0.000462	0.7	TBC1D2
208	0.004404	1.7		279	0.004141	0.7	
209	0.007433	1.7	KIAA0962	280	0.009896	0.7	

RZPD ID	P- value	Fold change	Gene symbol	RZPD ID	P- value	Fold change	Gene symbol
281	0.004375	0.7		351	0.001627	0.8	
282	0.009357	0.7		352	0.008798	0.7	
283	0.001149	0.7		353	0.003822	0.7	
284	0.003014	0.7		354	0.002338	0.7	
285	0.000954	0.7		355	0.005596	0.7	
286	0.008285	0.7		356	0.001463	0.6	MGP
287	0.000376	0.7	XPO1	357	0.001193	0.7	
288	0.001135	0.6		358	0.000183	0.6	
289	0.005552	0.7		359	0.008106	0.7	PAWR
290	0.007389	0.7		360	0.000682	0.7	
291	0.005628	0.8		361	0.006034	0.7	
292	0.004654	0.7		362	0.008339	0.7	PROX1
293	0.008862	0.7	LOC51119	363	0.009676	0.7	
294	0.001918	0.6		364	0.008712	0.7	
295	0.007087	0.7		365	0.000609	0.6	
296	0.008091	0.7		366	0.000089	0.6	
297	0.008843	0.7		367	0.00791	0.7	
298	0.009377	0.7		368	0.000905	0.6	
299	0.001765	0.7		369	0.005213	0.7	MSH5
300	0.000175	0.6		370	0.00092	0.7	
301	0.000156	0.6		371	0.00439	0.7	
302	0.000367	0.6		372	0.000315	0.6	
303	0.003981	0.6		373	0.003965	0.7	
304	0.001293	0.7		374	0.006272	0.7	
305	0.006407	0.7	H3FF	375	0.000589	0.7	
306	0.006832	0.7		376	0.009804	0.7	
307	0.000456	0.7		377	0.009939	0.7	DKFZP76112 123
308	0.001798	0.7	DBR1	378	0.002692	0.7	
309	0.000827	0.7		379	0.00542	0.7	PRO0659
310	0.002519	0.7		380	0.000472	0.7	
311	0.000898	0.7		381	0.004977	0.7	
312	0.005001	0.7		382	0.000456	0.7	
313	0.002019	0.7		383	0.003505	0.7	
314	0.000903	0.6		384	0.001534	0.6	SEZ6L
315	0.002228	0.7		385	0.000277	0.6	
316	0.002287	0.7		386	0.006461	0.7	
317	0.002192	0.7		387	0.002368	0.7	
318	0.000779	0.6	KIAA0376	388	0.009592	0.7	
319	0.009746	0.7		389	0.001391	0.6	EPS8R1
320	0.001832	0.7		390	0.008141	0.6	
321	0.004421	0.7		391	0.006893	0.7	ANKRD2
322	0.002357	0.7		392	0.002675	0.7	PCTK3
323	0.004297	0.7		393	0.008256	0.7	
324	0.000478	0.7		394	0.008461	0.7	PVR
325	0.004919	0.7		395	0.007661	0.7	KIAA0942
326	0.001341	0.7		396	0.008024	0.7	
327	0.004444	0.7		397	0.00924	0.7	
328	0.003149	0.7		398	0.004608	0.7	
329	0.001231	0.7		399	0.009364	0.7	PDCD7 DKFZp564K 142
330	0.005266	0.7		400	0.006821	0.7	
331	0.005152	0.7	HOOK2	401	0.007857	0.7	
332	0.000969	0.6		402	0.008803	0.7	
333	0.002286	0.7		403	0.006475	0.6	
334	0.005245	0.7	MRPL44	404	0.000409	0.5	
335	0.001856	0.7		405	0.001688	0.7	
336	0.003751	0.7		406	0.000003	0.5	HSKM-B
337	0.005557	0.7		407	0.004277	0.7	MASP1
338	0.007874	0.8	RRN3	408	0.000371	0.6	PFKP
339	0.004206	0.7		409	0.00015	0.6	NUDT4
340	0.004959	0.7		410	0.001621	0.7	KIAA1695
341	0.000598	0.7	TEKT2	411	0.00877	0.7	ATP5F1
342	0.004458	0.7		412	0.009755	0.7	TPM1
343	0.00311	0.7		413	0.008348	0.7	POLR3F
344	0.006215	0.7	MacGAP	414	0.000449	0.6	C1orf14
345	0.002066	0.7	LOC51316	415	0.007637	0.7	CKMT2
346	0.009403	0.7		416	0.007605	0.8	FABP3
347	0.003144	0.7		417	0.00202	0.7	
348	0.005626	0.7		418	0.000136	0.6	
349	0.005731	0.7		419	0.003457	0.7	C14orf3
350	0.004459	0.7		420	0.004486	0.7	TPM1

RZPD ID	P- value	Fold change	Gene symbol	RZPD ID	P- value	Fold change	Gene symbol
421	0.001903	0.7		47	0.006394	0.5	
422	0.002612	0.6	IDH2	48	0.005387	0.4	
423	0.006749	0.7	C20orf35	49	0.004964	0.5	
424	0.002557	0.6		50	0.003544	0.5	RTN4
425	0.00206	0.6	FHL1	51	0.006508	0.6	
426	0.000137	0.5		52	0.009971	0.3	ZNF287
427	0	0.4	FHL2	53	0.000814	0.4	
428	0.00001	0.5		54	0.001553	0.5	
429	0.000009	0.5	LPL	55	0.002538	0.5	
430	0.00005	0.5	LPL	56	0.0033	0.6	FANCC
431	0.000483	0.6	LPL	57	0.001935	0.4	
432	0.000019	0.6	LPL	58	0.002624	0.4	TBXAS1
433	0.00766	0.6		59	0.002994	1.5	
434	0.003661	0.6		60	0.00149	0.4	
435	0.005819	0.6		61	0.002153	0.4	TESK1
436	0.003895	0.5		62	0.00903	0.6	RPS7
437	0	0.1	MYL2	63	0.003238	0.6	
438	0	0.2	MYL3	64	0.003645	1.9	
				65	0.005735	0.5	
				66	0.008903	1.3	FLJ20069
				67	0.009309	0.5	
				68	0.009547	1.4	DAPP1
				69	0.006508	0.5	
				70	0.008009	1.8	
				71	0.009642	1.5	C7
				72	0.000006	0.6	
				73	0.000518	0.4	RECQL4
				74	0.003321	1.8	
				75	0.001614	0.4	
				76	0.002249	1.4	PROX1
				77	0.001811	2.4	
				78	0.004811	0.5	COX5B
				79	0.002383	0.6	FLJ22623
				80	0.000852	0.5	
				81	0.001027	1.6	
				82	0.001929	1.8	
				83	0.007343	0.5	
				84	0.002985	0.4	
				85	0.009704	0.4	
				86	0.00592	1.8	
				87	0.002864	0.6	
				88	0.003511	1.7	
				89	0.003961	0.6	
				90	0.004067	2	
				91	0.004209	0.6	
				92	0.004281	0.6	
				93	0.004737	1.8	SCGB2A2
				94	0.004783	1.7	FLJ14431
				95	0.000046	0.4	
				96	0.000093	0.5	
				97	0.003486	0.3	PSMC3
				98	0.001017	0.5	LOC56926
				99	0.001247	0.5	
				100	0.001118	0.6	ADRM1
				101	0.000072	1.9	
				102	0.000928	0.5	KIAA1055
				103	0.002471	1.7	GMPPB
				104	0.008322	0.6	
				105	0.00404	0.5	
				106	0.00734	0.5	
				107	0.008368	0.5	
				108	0.0097	0.5	TCF4
				109	0.006984	2	
				110	0.008556	2.2	
				111	0.009783	1.9	
				112	0.006804	0.5	
				113	0.009515	1.9	
				114	0.009799	0.6	
				115	0.004468	0.4	TCF4
				116	0.004694	2.5	

**RV versus LV**

1	0.006127	0.6		71	0.009642	1.5	C7
2	0.009563	1.6		72	0.000006	0.6	
3	0.000917	0.5		73	0.000518	0.4	RECQL4
4	0.006216	2		74	0.003321	1.8	
5	0.004141	0.4	QKI	75	0.001614	0.4	
6	0.005171	0.7		76	0.002249	1.4	PROX1
7	0.009816	0.6		77	0.001811	2.4	
8	0.005379	0.5		78	0.004811	0.5	COX5B
9	0.007813	0.6		79	0.002383	0.6	FLJ22623
10	0.00973	1.3		80	0.000852	0.5	
11	0.005455	0.5	KDEL2	81	0.001027	1.6	
12	0.00631	0.5	CALR	82	0.001929	1.8	
13	0.005666	1.8		83	0.007343	0.5	
14	0.009487	0.6		84	0.002985	0.4	
15	0.004696	0.6	ARHGDI3	85	0.009704	0.4	
16	0.004878	0.4		86	0.00592	1.8	
17	0.00482	0.6		87	0.002864	0.6	
18	0.00665	0.6		88	0.003511	1.7	
19	0.004827	0.6		89	0.003961	0.6	
20	0.005551	0.6		90	0.004067	2	
21	0.0048	0.7		91	0.004209	0.6	
22	0.002587	0.6		92	0.004281	0.6	
23	0.003202	1.4		93	0.004737	1.8	SCGB2A2
24	0.003168	0.5	KIAA0961	94	0.004783	1.7	FLJ14431
25	0.006455	0.6	CHRM1	95	0.000046	0.4	
26	0.003336	0.5	AD034	96	0.000093	0.5	
27	0.003196	0.4		97	0.003486	0.3	PSMC3
28	0.009489	0.6		98	0.001017	0.5	LOC56926
29	0.003429	0.4		99	0.001247	0.5	
30	0.004925	0.5		100	0.001118	0.6	ADRM1
31	0.000351	0.5	SYTL2	101	0.000072	1.9	
32	0.007166	0.4	TGM2	102	0.000928	0.5	KIAA1055
33	0.005209	0.5	S100A13	103	0.002471	1.7	GMPPB
34	0.008263	1.9		104	0.008322	0.6	
35	0.008487	2.1		105	0.00404	0.5	
36	0.006317	0.6		106	0.00734	0.5	
37	0.00077	1.6	ELAC2	107	0.008368	0.5	
38	0.002573	0.5		108	0.0097	0.5	TCF4
39	0.005785	0.6		109	0.006984	2	
40	0.001458	1.8	RRN3	110	0.008556	2.2	
41	0.006572	0.4	PCBP2	111	0.009783	1.9	
42	0.009263	0.6		112	0.006804	0.5	
43	0.005141	0.2		113	0.009515	1.9	
44	0.007097	0.4		114	0.009799	0.6	
45	0.009877	0.4		115	0.004468	0.4	TCF4
46	0.004859	1.6		116	0.004694	2.5	

RZPD ID	P- value	Fold change	Gene symbol	RZPD ID	P- value	Fold change	Gene symbol
117	0.008599	1.5		32	0.008073	1.5	GNAS
118	0.007936	0.5		33	0.00473	1.6	LRPPRC
119	0.004245	0.5		34	0.002951	1.7	FLJ10350
120	0.004456	2.7		35	0.008846	1.5	
121	0.007156	1.7		36	0.007471	1.5	
122	0.008609	0.7	NDUFA1	37	0.008331	1.4	
123	0.007034	0.6		38	0.007139	1.5	
124	0.007947	0.5		39	0.00746	1.4	
125	0.009067	0.6		40	0.008546	1.5	
126	0.002904	0.5	LOC51177	41	0.007081	1.5	
127	0.008223	2		42	0.00292	1.7	
128	0.009241	0.6		43	0.006467	1.6	
129	0.0065	0.5	DKFZP564K247	44	0.008055	1.6	HIRIP3
130	0.003582	0.5	COX6C	45	0.009624	1.5	
131	0.007855	0.5	FLJ10407	46	0.0024	1.7	
132	0.008814	2		47	0.008956	1.4	
133	0.004627	2		48	0.009646	1.6	RPS11
134	0.007729	0.5		49	0.008652	1.6	
135	0.007996	0.6	GDI1	50	0.005291	1.4	
136	0.008082	0.5		51	0.009748	1.6	COX7A2L
137	0.00384	2.3		52	0.006153	1.6	KIAA0010
138	0.004479	1.9		53	0.001806	1.8	DKFZP434P1735
139	0.008665	3		54	0.001644	1.9	
140	0.004617	1.8	HSF2BP	55	0.007928	1.5	
141	0.006787	1.7		56	0.00508	1.9	
142	0.0045	1.7		57	0.009812	1.4	
143	0.0084	2.4	PCL1	58	0.002847	1.5	CKAP1
144	0.009648	0.5		59	0.007897	1.3	
145	0.001059	1.4		60	0.002075	1.6	
146	0.002687	0.5		61	0.005765	1.6	NEDD5
147	0.002854	0.5	RAB11A	62	0.001276	1.7	OGDH
148	0.007604	1.6		63	0.004708	1.6	GDI1
149	0.004467	1.6		64	0.006978	1.8	
				65	0.00038	1.8	
				66	0.009741	1.7	
				67	0.002561	1.8	
				68	0.001437	1.8	
				69	0.006903	1.7	BECN1
				70	0.007407	1.6	
				71	0.008027	1.6	
1	0.001353	1.7	POLK	72	0.006743	1.7	
2	0.006043	1.5		73	0.006994	1.8	MGC2731
3	0.000901	1.6		74	0.006955	1.8	
4	0.000724	1.8		75	0.005457	1.6	BCL7A
5	0.001605	1.6		76	0.006049	1.7	THRSP
6	0.002094	1.7		77	0.001504	1.8	
7	0.008521	1.6		78	0.002875	1.9	
8	0.00998	1.5		79	0.005988	1.5	MGC10600
9	0.00113	1.7	ADD2	80	0.00766	1.7	
10	0.000298	1.9		81	0.007964	1.7	PRX
11	0.001247	1.8		82	0.009797	1.6	
12	0.002809	1.7		83	0.000989	1.8	
13	0.000242	1.7		84	0.003751	1.6	
14	0.000079	1.8		85	0.001376	1.8	
15	0.000402	1.8		86	0.006413	1.8	
16	0.000448	1.8		87	0.004189	2.1	
17	0.000935	1.5	KLF12	88	0.006588	1.8	
18	0.003734	1.8		89	0.007272	2.5	
19	0.003931	1.9		90	0.00755	3.1	
20	0.004942	1.7		91	0.007426	1.9	
21	0.000617	1.7	CS	92	0.001938	2.9	SEMG1
22	0.000825	1.7	FLJ22623	93	0.007999	0.7	
23	0.000378	1.7		94	0.000912	0.7	
24	0.002517	1.7		95	0.002547	0.7	
25	0.002614	1.8	FBXL3A	96	0.001353	0.6	
26	0.000702	1.8		97	0.007191	0.7	
27	0.002488	1.8		98	0.008599	0.7	PTPN4
28	0.00086	2		99	0.006939	0.7	
29	0.009458	1.5	SNX2	100	0.003488	0.7	
30	0.003538	1.5		101	0.003638	0.6	
31	0.006078	1.5					

## RVH in RV

RZPD ID	P- value	Fold change	Gene symbol	RZPD ID	P- value	Fold change	Gene symbol
102	0.008458	0.7		172	0.007535	0.5	
103	0.009085	0.7	FLJ20245	173	0.009293	0.5	
104	0.003181	0.7		174	0.001512	0.6	
105	0.001076	0.7		175	0.009415	0.5	
106	0.001226	0.7		176	0.006713	0.5	
107	0.006557	0.7		177	0.005989	0.5	
108	0.000928	0.6		178	0.004723	0.5	
109	0.001673	0.6	FLJ10989	179	0.009305	0.7	
110	0.003782	0.6		180	0.001205	0.7	
111	0.005023	0.6		181	0.006484	0.7	
112	0.009245	0.6		182	0.009342	0.7	
113	0.009192	0.7		183	0.008199	0.7	TMOD
114	0.009016	0.7		184	0.008669	0.6	
115	0.002899	0.7		185	0.00542	0.5	
116	0.003275	0.6		186	0.001896	0.7	Z39IG
117	0.009372	0.6		187	0.000305	0.4	MGC2555
118	0.008557	0.6	MAFF	188	0.006906	0.7	IFI30
119	0.002257	0.6		189	0.00065	0.6	IFITM3
120	0.009736	0.7		190	0.006776	0.6	DF
121	0.000425	0.6	PDE4C	191	0.003712	0.5	LOC51063
122	0.006951	0.6	PMSCL2	192	0.005958	0.4	
123	0.00078	0.6	SCGB2A2	193	0.000772	0.5	PLA2G2A
124	0.001878	0.6	DKFZP434P0316	194	0.003095	0.4	C3
125	0.002724	0.7		195	0.005741	0.6	
126	0.008814	0.8		196	0.006947	0.7	
127	0.001181	0.6		197	0.001692	0.6	
128	0.000996	0.7		198	0.002315	0.4	
129	0.005685	0.6	PCDH9				
130	0.006388	0.7					
131	0.001014	0.5					
132	0.007397	0.6	UBE2G2				
133	0.004886	0.6					
134	0.007359	0.6					
135	0.003691	0.6	MGC5254	1	0.009155	1.4	
136	0.002628	0.6		2	0.004006	1.5	
137	0.006828	0.6		3	0.00416	1.5	SYTL2
138	0.008895	0.7		4	0.006156	1.6	QKI
139	0.008976	0.6		5	0.000427	1.7	KIAA1055
140	0.006904	0.7		6	0.005662	1.5	
141	0.004707	0.7		7	0.007619	1.5	BCL11B
142	0.001785	0.7		8	0.003219	1.6	PCBP2
143	0.000379	0.6		9	0.00075	1.7	
144	0.000811	0.6		10	0.005643	1.5	SNIP1
145	0.000346	0.6		11	0.00585	1.5	
146	0.002243	0.7		12	0.002177	1.5	FKSG14
147	0.00904	0.6		13	0.005621	1.5	
148	0.001875	0.6		14	0.003624	1.5	
149	0.006691	0.6		15	0.00809	1.4	
150	0.001645	0.6		16	0.004891	1.5	LOC51177
151	0.005205	0.6		17	0.003725	1.4	
152	0.001901	0.6		18	0.009078	1.6	
153	0.002841	0.6	KIAA0376	19	0.004124	1.7	TMOD2
154	0.004542	0.7		20	0.00675	1.7	
155	0.005875	0.7		21	0.008294	1.5	
156	0.00042	0.6		22	0.009166	1.6	RPS6
157	0.00232	0.7		23	0.009612	1.5	
158	0.007536	0.7		24	0.003215	1.5	
159	0.00187	0.6		25	0.001861	1.7	RPL37A
160	0.001635	0.6		26	0.009255	1.5	RPS3A
161	0.002575	0.6	FLJ14431	27	0.009882	1.6	
162	0.000489	0.5		28	0.004774	1.5	RPS14
163	0.00406	0.5		29	0.009981	1.6	
164	0.001067	0.5		30	0.008683	1.6	RPL13A
165	0.00584	0.5		31	0.005108	1.6	
166	0.001056	0.6		32	0.001328	1.6	A2BP1
167	0.009552	0.7		33	0.008531	1.4	VWF
168	0.001227	0.6		34	0.001851	1.6	FLJ10350
169	0.0042	0.6	ING5	35	0.005546	1.5	VPS35
170	0.00219	0.5		36	0.001664	1.5	NDUFB4
171	0.004456	0.5		37	0.008789	1.5	ROBO4

TOF in RV

RZPD ID	P- value	Fold change	Gene symbol	RZPD ID	P- value	Fold change	Gene symbol
38	0.008224	1.5	NDUFB10	108	0.007698	1.7	
39	0.001285	1.7	SDHA	109	0.006037	1.6	RNF27
40	0.00311	1.6	S100A13	110	0.006323	1.5	
41	0.008563	1.6	LOC51189	111	0.007724	1.6	
42	0.002864	1.7	KIAA0759	112	0.00223	1.6	
43	0.0008	1.5	NDUFS7	113	0.000777	1.7	
44	0.005551	1.7	TNNI3	114	0.007013	1.7	INPPL1
45	0.000749	1.7	CAMK2B	115	0.000128	1.7	GDI1
46	0.007347	1.5	MSTP032	116	0.009317	1.5	OGDH
47	0.00929	1.6		117	0.009782	1.5	
48	0.001319	1.6	DIA1	118	0.002028	1.7	
49	0.003389	1.6		119	0.008213	1.5	CS
50	0.002753	1.5	AMMECR1	120	0.002002	1.8	
51	0.007317	1.5	PA2G4	121	0.000974	1.7	FLJ22623
52	0.000959	1.8		122	0.005688	1.9	
53	0.009777	1.5		123	0.008577	1.6	
54	0.005719	1.8		124	0.009096	1.6	
55	0.006549	1.6		125	0.000843	2.3	
56	0.003555	1.7		126	0.009985	1.7	
57	0.007091	1.7	NHP2L1	127	0.004437	1.7	CYYR1
58	0.009903	1.7		128	0.00358	1.5	
59	0.003791	1.6		129	0.004448	1.6	
60	0.008729	1.5		130	0.009275	1.5	ARSA
61	0.009128	1.6		131	0.004734	1.6	
62	0.009701	1.4		132	0.006969	1.5	SNX2
63	0.004099	1.6		133	0.003979	1.6	
64	0.009323	1.5		134	0.009647	1.6	
65	0.004948	1.5		135	0.008103	1.6	
66	0.007027	1.6		136	0.004675	1.7	
67	0.007693	1.4		137	0.008476	1.6	UBQLN2
68	0.003977	1.6		138	0.006747	1.7	
69	0.004628	1.6		139	0.008105	1.5	
70	0.00447	1.6		140	0.006685	1.6	RFX3
71	0.00995	1.7		141	0.003433	1.6	
72	0.007509	1.7		142	0.00542	1.7	
73	0.008551	1.7		143	0.00925	1.5	
74	0.001584	1.6		144	0.001159	1.7	FLJ20331
75	0.008264	1.6		145	0.007119	1.7	
76	0.005424	1.6	PDE1A	146	0.009144	1.5	
77	0.006203	1.6		147	0.00073	1.7	
78	0.001744	1.8		148	0.009133	1.6	
79	0.007162	1.7		149	0.003981	1.6	
80	0.002843	1.7		150	0.000202	1.7	MGC10600
81	0.002904	1.6	LRPPRC	151	0.003654	1.8	
82	0.008504	1.5	FLJ20312	152	0.007661	1.6	
83	0.008245	1.5		153	0.009003	1.8	
84	0.009377	1.5		154	0.00507	1.9	
85	0.009483	1.6		155	0.009694	1.7	
86	0.002343	1.6		156	0.000051	2.2	
87	0.008555	1.6		157	0.003869	1.8	
88	0.009619	1.5		158	0.006918	1.8	
89	0.007081	1.5		159	0.000594	2	
90	0.003309	1.7		160	0.008714	1.7	
91	0.008906	1.6		161	0.006802	1.7	
92	0.002816	1.7		162	0.002261	1.8	
93	0.009975	1.6		163	0.00649	1.9	
94	0.005043	1.8		164	0.003641	1.9	MGC2664
95	0.007568	1.6	RPS11	165	0.006638	1.8	
96	0.008157	1.8	PSMB1	166	0.002585	2	
97	0.002711	1.8		167	0.008982	1.8	RPS6KA5
98	0.0027	1.6		168	0.003683	2	
99	0.008488	1.6		169	0.009355	1.7	
100	0.001618	1.7		170	0.005221	1.7	
101	0.00105	1.7	KIAA1437	171	0.000709	2	
102	0.005786	1.5		172	0.004091	1.6	
103	0.009378	1.5		173	0.006558	1.7	
104	0.004209	1.7		174	0.00475	1.7	
105	0.005839	1.6		175	0.006941	1.9	ATP5F1
106	0.004798	1.7		176	0.003037	1.8	
107	0.001197	1.9	LW-1	177	0.006806	1.8	

RZPD ID	P- value	Fold change	Gene symbol	RZPD ID	P- value	Fold change	Gene symbol
178	0.003247	1.9		248	0.000528	0.6	
179	0.007411	1.8		249	0.000264	0.6	
180	0.00111	1.8		250	0.004499	0.6	PTPN4
181	0.008953	1.7		251	0.00543	0.6	
182	0.006424	2		252	0.005699	0.6	
183	0.000525	2		253	0.008759	0.6	
184	0.004074	1.7		254	0.001912	0.6	ACACB
185	0.006987	1.6	MGC13038	255	0.002098	0.6	
186	0.00261	1.8	KIAA1353	256	0.009173	0.6	
187	0.009586	2		257	0.00053	0.6	
188	0.003614	1.6		258	0.008237	0.7	
189	0.000477	1.7	BCL7A	259	0.004209	0.7	
190	0.005242	1.6		260	0.007302	0.7	
191	0.007655	1.6		261	0.00755	0.6	
192	0.00869	1.4		262	0.004082	0.6	PMSCL2
193	0.006125	1.6		263	0.000429	0.6	SCGB2A2
194	0.002625	1.6		264	0.004198	0.6	
195	0.005174	1.7	THRSP	265	0.003069	0.7	PDE4C
196	0.000462	1.7		266	0.004201	0.7	
197	0.002073	1.6	MGC12921	267	0.002254	0.6	
198	0.004914	1.7		268	0.002556	0.6	
199	0.008799	1.6		269	0.002559	0.7	
200	0.006979	1.7		270	0.008617	0.6	
201	0.002144	2		271	0.007542	0.6	
202	0.008474	1.8	DNAH9	272	0.002087	0.6	
203	0.001557	2.7		273	0.001008	0.5	
204	0.005551	2.3		274	0.004949	0.5	
205	0.007293	2.6	DKFZP566D1346	275	0.002616	0.6	
206	0.000517	2.8	TNNI1	276	0.005012	0.6	PFAS
207	0.009163	0.6		277	0.007177	0.6	
208	0.009003	0.6		278	0.00623	0.6	MICB
209	0.008621	0.6		279	0.00834	0.7	
210	0.005295	0.6		280	0.004683	0.6	
211	0.005996	0.7		281	0.005936	0.7	
212	0.000954	0.6		282	0.005871	0.6	
213	0.004588	0.6	LOC51244	283	0.00819	0.6	
214	0.002929	0.6	BRDG1	284	0.004944	0.6	TRAM
215	0.003686	0.7		285	0.00238	0.7	
216	0.008851	0.7	STK33	286	0.008024	0.8	
217	0.006695	0.7		287	0.006961	0.7	
218	0.00118	0.6		288	0.001049	0.6	
219	0.006378	0.6		289	0.000253	0.6	
220	0.006975	0.6		290	0.007213	0.7	
221	0.003048	0.7		291	0.008549	0.6	RRN3
222	0.001038	0.6		292	0.006725	0.6	
223	0.00115	0.7		293	0.00379	0.6	
224	0.002906	0.7		294	0.000492	0.6	
225	0.002343	0.6		295	0.005212	0.6	
226	0.003986	0.6		296	0.005362	0.6	
227	0.000928	0.6	TEKT2	297	0.004612	0.6	
228	0.007633	0.6		298	0.005665	0.8	
229	0.005298	0.6		299	0.008095	0.7	
230	0.003692	0.6		300	0.007217	0.5	
231	0.006986	0.6	KIAA0220	301	0.00411	0.6	
232	0.004972	0.6		302	0.005628	0.6	
233	0.003245	0.6		303	0.00885	0.6	
234	0.004393	0.6	UBE2G2	304	0.002256	0.6	
235	0.005062	0.6		305	0.00856	0.7	
236	0.001319	0.6		306	0.00481	0.6	
237	0.003904	0.6		307	0.008754	0.6	MGC4562
238	0.008834	0.7		308	0.005882	0.6	
239	0.000793	0.5		309	0.009967	0.7	
240	0.007426	0.7		310	0.001972	0.7	
241	0.00594	0.7		311	0.000056	0.6	
242	0.003201	0.7		312	0.005103	0.6	
243	0.002076	0.7		313	0.007663	0.7	
244	0.000416	0.6		314	0.002578	0.5	
245	0.006014	0.6	FLJ10989	315	0.004306	0.6	ADCY6
246	0.007219	0.7		316	0.000793	0.5	
247	0.001675	0.7		317	0.002899	0.6	LXN



RZPD ID	P- value	Fold change	Gene symbol	RZPD ID	P- value	Fold change	Gene symbol
318	0.007574	0.6	IFITM3	59	0.009078	1.6	
319	0.000729	0.5		60	0.005362	0.6	
320	0.007036	0.5		61	0.009612	1.5	
321	0.00393	0.4	RAD1	62	0.003037	1.8	
322	0.003725	0.4		63	0.003215	1.5	
323	0.004194	0.4		64	0.009882	1.6	
324	0.004074	1.7	DPF3	65	0.006725	0.6	
				66	0.00819	0.6	
				67	0.005839	1.6	
				68	0.008294	1.5	
				69	0.000056	0.6	
				70	0.0027	1.6	
				71	0.004137	0.5	
				72	0.005719	1.8	
				73	0.005108	1.6	
				74	0.000729	0.5	
				75	0.002585	2	
				76	0.000011	1.6	
				77	0.000052	0.5	
				78	0.009619	1.5	
				79	0.00513	0.4	
				80	0.003979	1.6	
				81	0.003389	1.6	
				82	0.009323	1.5	
				83	0.00585	1.5	
				84	0.009914	0.8	
				85	0.003986	0.6	
				86	0.003725	0.4	
				87	0.007036	0.5	
				88	0.000777	1.7	
				89	0.000793	0.5	
				90	0.009096	1.6	
				91	0.007027	1.6	
				92	0.00675	1.7	
				93	0.003791	1.6	
				94	0.009003	0.6	
				95	0.008577	1.6	
				96	0.007663	0.7	
				97	0.007317	1.5	PA2G4
				98	0.008953	1.7	
				99	0.00393	0.4	RAD1
1	0.001328	1.6	A2BP1				
2	0.009275	1.5	ARSA				
3	0.007619	1.5	BCL11B				
4	0.001319	1.6	DIA1				
5	0.007293	2.6	DKFZP566D1346				
6	0.008789	1.5	ROBO4				
7	0.002177	1.5	FKSG14				
8	0.001851	1.6	FLJ10350				
9	0.002864	1.7	KIAA0759				
10	0.00105	1.7	KIAA1437				
11	0.002904	0.5	LOC51177				
12	0.004891	1.5	LOC51177				
13	0.00623	0.6	MICB				
14	0.008224	1.5	NDUFB10				
15	0.0008	1.5	NDUFS7				
16	0.007091	1.7	NHP2L1				
17	0.006685	1.6	RFX3				
18	0.006037	1.6	RNF27				
19	0.008683	1.6	RPL13A				
20	0.001861	1.7	RPL37A				
21	0.004774	1.5	RPS14				
22	0.009255	1.5	RPS3A				
23	0.009166	1.6	RPS6				
24	0.001458	1.8	RRN3				
25	0.008549	0.6	RRN3				
26	0.001285	1.7	SDHA				
27	0.004124	1.7	TMOD2				
28	0.000517	2.8	TNNI1				
29	0.004944	0.6	TRAM				
30	0.008476	1.6	UBQLN2				
31	0.005546	1.5	VPS35				
32	0.008531	1.4	VWF				
33	0.008906	1.6					
34	0.006975	0.6					
35	0.003977	1.6					
36	0.006424	2		1	0.007338	1.6	
37	0.004209	0.7		2	0.000852	1.6	
38	0.009981	1.6		3	0.006536	1.9	KIF1C
39	0.007724	1.6		4	0.007094	1.7	FER1L4
40	0.001204	0.5		5	0.006854	1.7	
41	0.009701	1.4		6	0.006445	1.7	
42	0.006806	1.8		7	0.005087	1.8	
43	0.007343	0.5		8	0.004964	1.7	
44	0.003725	1.4		9	0.005387	1.8	
45	0.009985	1.7		10	0.009213	1.9	ROK1
46	0.006961	0.7		11	0.000818	2.2	
47	0.002261	1.8		12	0.005857	1.9	
48	0.005688	1.9		13	0.001958	1.9	PRO1073
49	0.006549	1.6		14	0.000293	2.1	PPFIBP1
50	0.007698	1.7		15	0.008923	1.9	
51	0.002256	0.6		16	0.002966	2.6	
52	0.006747	1.7		17	0.007893	1.6	SLC26A8
53	0.00929	1.6		18	0.008071	2.1	LOC91056
54	0.00925	1.5		19	0.006163	1.8	FLJ21106
55	0.006804	0.5		20	0.006196	1.9	
56	0.009155	1.4		21	0.002216	2	
57	0.009586	2		22	0.009599	1.7	
58	0.001553	0.5		23	0.007149	2.3	

## TOF minus RVH

## VSD in RA

RZPD ID	P- value	Fold change	Gene symbol	RZPD ID	P- value	Fold change	Gene symbol
24	0.009607	2	MRG15	94	0.004943	0.6	AMD1
25	0.003994	2		95	0.00687	0.6	
26	0.009846	1.9	PCL1	96	0.001791	0.5	SLC16A5
27	0.008893	1.9	PTPN18	97	0.006192	0.5	
28	0.001814	2		98	0.008987	0.4	
29	0.004666	2.1		99	0.006716	0.5	
30	0.008737	2.3		100	0.00791	0.4	
31	0.001831	2		101	0.001692	0.4	
32	0.006755	1.7	MGC3207	102	0.003644	0.6	
33	0.00381	2.4		103	0.004742	0.4	DKFZP434P1735
34	0.008444	2.2		104	0.007046	0.4	TBXAS1
35	0.006543	2.4	KIAA1909	105	0.002927	0.3	
36	0.006842	2.5		106	0.008519	0.3	
37	0.009197	2.5		107	0.00782	0.4	
38	0.001407	2.2	VIT	108	0.003769	0.4	
39	0.004194	2.4		109	0.006683	0.5	
40	0.008678	0.5		110	0.006889	0.4	
41	0.009797	0.5		111	0.009877	0.5	
42	0.006194	0.5		112	0.002103	0.3	
43	0.002401	0.4	KIAA0846	113	0.009244	0.4	
44	0.005875	0.4		114	0.008557	0.6	
45	0.002563	0.5	MGC20504	115	0.004874	0.5	HSA011916
46	0.004073	0.5		116	0.004456	0.5	
47	0.009106	0.5		117	0.006042	0.4	
48	0.008786	0.5		118	0.006987	0.5	
49	0.001417	0.5		119	0.002652	0.5	RPS11
50	0.00457	0.5	FLJ10350	120	0.007694	0.5	RPL18A
51	0.00712	0.5	FLJ32631	121	0.009136	0.5	
52	0.008314	0.5		122	0.003915	0.4	
53	0.009738	0.5		123	0.002535	0.4	
54	0.009978	0.5		124	0.009347	0.4	
55	0.005742	0.5	SEC23B	125	0.008553	0.5	SULT1C1
56	0.003379	0.5		126	0.004441	0.4	D10S170
57	0.007044	0.4		127	0.001697	0.4	
58	0.003434	0.5		128	0.007679	0.5	S100A13
59	0.007986	0.5		129	0.002827	0.5	URG4
60	0.006432	0.5	OAZ2	130	0.001943	0.5	INPPL1
61	0.005853	0.5		131	0.007013	0.5	
62	0.003709	0.5		132	0.002165	0.5	LW-1
63	0.004426	0.6		133	0.009455	0.5	
64	0.006056	0.6		134	0.002008	0.4	
65	0.000952	0.5		135	0.002694	0.3	
66	0.009944	0.5		136	0.004194	0.4	
67	0.005195	0.6		137	0.00513	0.4	
68	0.004011	0.4		138	0.007991	0.4	ADAM9
69	0.008502	0.4		139	0.009862	0.4	
70	0.008025	0.5		140	0.002873	0.4	DKFZp547J036
71	0.008187	0.4		141	0.00122	0.4	CROT
72	0.005466	0.4	AD034	142	0.007087	0.7	
73	0.000943	0.4		143	0.002851	0.5	RIPK3
74	0.00645	0.5		144	0.00393	0.3	SBP2
75	0.006598	0.5	GPCR150	145	0.006003	0.5	
76	0.009577	0.5	D1S155E	146	0.00811	0.4	KCNS2
77	0.009676	0.5		147	0.007147	0.4	OA48-18
78	0.004335	0.4		148	0.005337	0.4	
79	0.00712	0.5		149	0.009274	0.4	EGLN1
80	0.002556	0.5		150	0.005268	0.3	KCNN3
81	0.00387	0.4		151	0.001375	0.4	CALU
82	0.001852	0.4		152	0.009349	0.4	ACADM
83	0.009095	0.6		153	0.007385	0.4	
84	0.001368	0.4		154	0.005393	0.3	ARTS-1
85	0.001001	0.5		155	0.00536	0.4	
86	0.001204	0.5		156	0.009106	0.4	ARVCF
87	0.004137	0.5		157	0.002321	0.3	
88	0.001518	0.4		158	0.004052	0.4	CPE
89	0.000893	0.4		159	0.002712	0.4	
90	0.001382	0.4		160	0.002454	0.4	
91	0.001043	0.4		161	0.000741	0.3	RAB38
92	0.006207	0.4	CS	162	0.003445	0.3	
93	0.003267	0.5		163	0.000755	0.3	

	<b>RZPD ID</b>	<b>P- value</b>	<b>Fold change</b>	<b>Gene symbol</b>
164	IMAGp956i0354	0.004764	0.5	
165	IMAGp956C2314	0.00317	0.4	RPL36
166	IMAGp956N0631	0.007328	0.5	NDUFB9
167	IMAGp956H0142	0.005749	0.5	PPAP2C
168	IMAGp956C1141	0.007771	0.5	
169	IMAGp956L1864	0.003815	0.5	
170	IMAGp956i06170	0.001495	0.4	
171	IMAGp956J0915	0.009622	0.5	FH
172	IMAGp956G226	0.00983	0.4	LGALS1
173	IMAGp956N0930	0.008508	0.5	CAPNS1
174	IMAGp956G1016	0.008983	0.4	MYH9
175	IMAGp956E2241	0.005156	0.5	GAPD
176	IMAGp956D0830	0.002685	0.5	COX6B
177	IMAGp956D0729	0.002937	0.5	CFL2
178	IMAGp956L1930	0.003478	0.5	COX8
179	IMAGp956L1760	0.003841	0.5	RPLP0
180	IMAGp956D1512	0.005452	0.4	KIAA1200
181	IMAGp956K1552	0.008349	0.5	RPL31
182	IMAGp956J14154	0.001565	0.4	
183	IMAGp956B13193	0.006432	0.5	
184	IMAGp956A12158	0.005015	0.4	HYPK
185	IMAGp956A1112	0.006455	0.3	FLJ14600
186	IMAGp956O0430	0.007058	0.4	NEUROD6
187	IMAGp956E1120	0.006035	0.4	
188	IMAGp956K0440	0.006629	0.4	PER2
189	IMAGp956M1860	0.00278	0.4	TRD
190	IMAGp956C1054	0.009037	0.5	
191	IMAGp956L1224	0.006132	0.5	
192	IMAGp956B2264	0.007243	0.5	
193	IMAGp956P17143	0.003623	0.5	
194	IMAGp956O03173	0.003607	0.5	SLC4A7
195	IMAGp956P14143	0.008339	0.5	RDGBB
196	IMAGp956N2221	0.009618	0.3	RNF14
197	IMAGp956J0135	0.00223	0.3	
198	IMAGp956J1222	0.009589	0.4	
199	IMAGp956H2010	0.009008	0.4	
200	IMAGp956i2415	0.009455	0.3	SIAHBP1
201	IMAGp956K1514	0.00537	0.4	KIAA1102
202	IMAGp956i0663	0.006362	0.3	S100A11
203	IMAGp956A1215	0.002153	0.3	PIPPIN
204	IMAGp956C0518	0.004606	0.3	C3
205	IMAGp956F1716	0.009865	0.4	GSN
206	IMAGp956P2451	0.007143	0.4	
207	IMAGp956P19151	0.003749	0.3	
208	IMAGp956F14149	0.006068	0.3	
209	IMAGp956M23131	0.005298	0.3	
210	IMAGp956A23131	0.007997	0.3	
211	IMAGp956M0127	0.006738	0.2	MRPS7
212	IMAGp956L0112	0.009309	0.4	SECRETACTR1A
213	IMAGp956F0344	0.004649	0.3	LOC57213
214	IMAGp956G0927	0.006134	0.2	IDH2
215	IMAGp956C0130	0.001851	0.2	GABARAPL1

### **Selbstständigkeitserklärung**

Hiermit erkläre ich, dass ich die Arbeit selbst verfasst and keine anderen als die angegebenen Quellen and Hilfsmittel benutzt habe. Ich versichere, dass diese Arbeit in dieser oder anderer Form noch keiner anderen Prüfungsbehörde vorgelegt wurde.

Berlin, den 02.Juni.2005

Bogac Kaynak