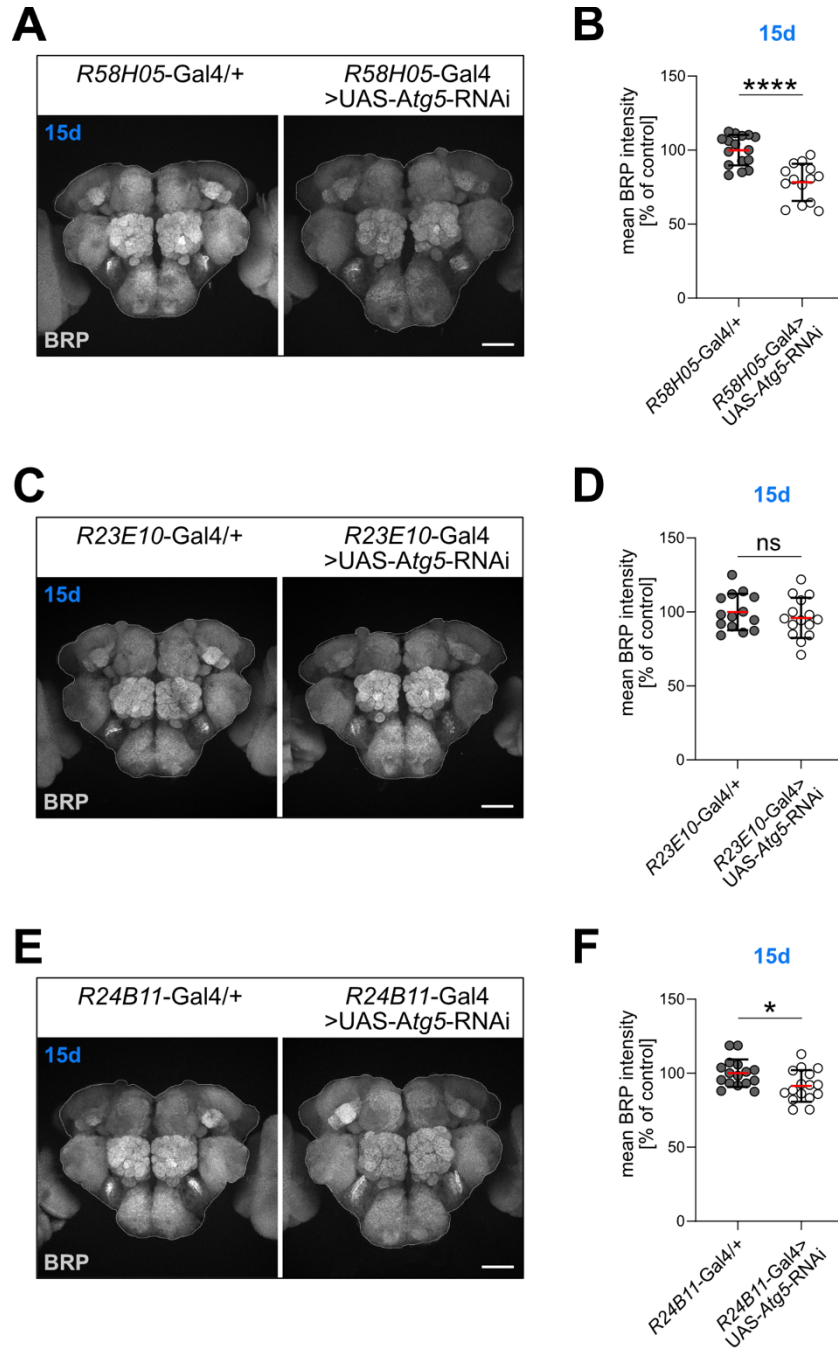


Appendix for:

“Local autophagy impairment triggers brain-wide presynaptic remodeling and resilience”

1	.	Appendix Figure S1	–	Related to	Fig. 1	Knockdown of <i>Atg5</i> in sleep-regulating neurons does not induce brain-wide PreScale.	1
2	.	Appendix Figure S2	–	Related to	Fig. 3	Pan-neuronal or MB-specific re-expression of <i>Atg7</i> improves the survival of <i>Atg7^{d77}</i> mutants.	3
3		Appendix Figure S3		Related to	Fig. 4	Post-developmental Auxin-induced expression of <i>Atg5</i> -RNAi within the MB KCs does not result in Ref(2)P/P62 aggregate formation at 15 days.	4
4	.	Appendix Figure S4	–	Related to	Fig. 4	Gal4-controlled activation of BRP FlySam2.0 robustly increases BRP levels at the larval neuromuscular junction (NMJ) and in the adult brain.	5
5	.	Appendix Figure S5	–	Related to	Fig. 6	Volcano plots illustrating the Top 20 protein hits with the highest p-value significantly downregulated or upregulated in MB-autophagy impaired flies compared to controls.	6
6	.	Appendix Figure S6	–	Related to	Fig. 6	Proteomic changes in fly brains with MB-specific <i>Atg5</i> knockdown are largely mediated post-transcriptionally.	7
7	.	Appendix Figure S7	–	Related to	Fig. 7	Somatic CRISPR/Cas9-mediated conditional knockout of <i>Atg5</i> specifically in MB KCs results in widespread non-cell autonomous accumulation of Ref(2)P/P62.	8
8	.	Appendix Figure S8	–	Related to	Fig. 8	Synaptic accumulation of ATG8a in the MB lobes upon <i>vt30559</i> -Gal4 mediated knockdown of <i>Atg5</i> .	9
9	.	Appendix Table S1	–	Related to	Fig. 5,6	Significantly upregulated proteins upon MB-specific <i>Atg5</i> knockdown.	10
10	.	Appendix Table S2	–	Related to	Fig. 5,6	Significantly downregulated proteins upon MB-specific <i>Atg5</i> knockdown.	18

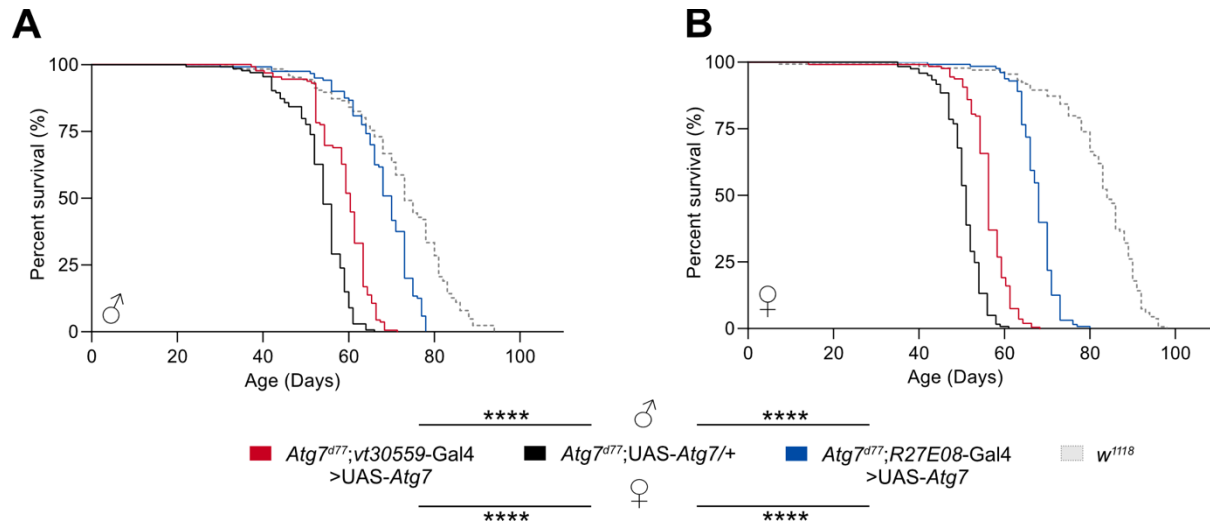


Appendix Figure S1 – related to Fig. 1

Knockdown of *Atg5* in sleep-regulating neurons does not induce brain-wide PreScale.

(A, B) Knockdown of *Atg5* in R2/5 neurons of the ellipsoid body (*R58H05-Gal4>UAS-Atg5-RNAi*) in comparison to *R58H05-Gal4/+* female control flies at 15d age. Brains were immunostained against BRP^{Nc82}, and measured whole brain mean BRP intensities were normalized to the *R58H05-Gal4/+* control group. (A) Representative confocal max projections and (B) quantification of BRP intensities for 15d old female flies. Scale bar = 50 μ m; n = 14-16 adult brains per genotype pooled from 2 independent experiments; unpaired Two-tailed t-test. *****p* < 0.0001. (C, D)

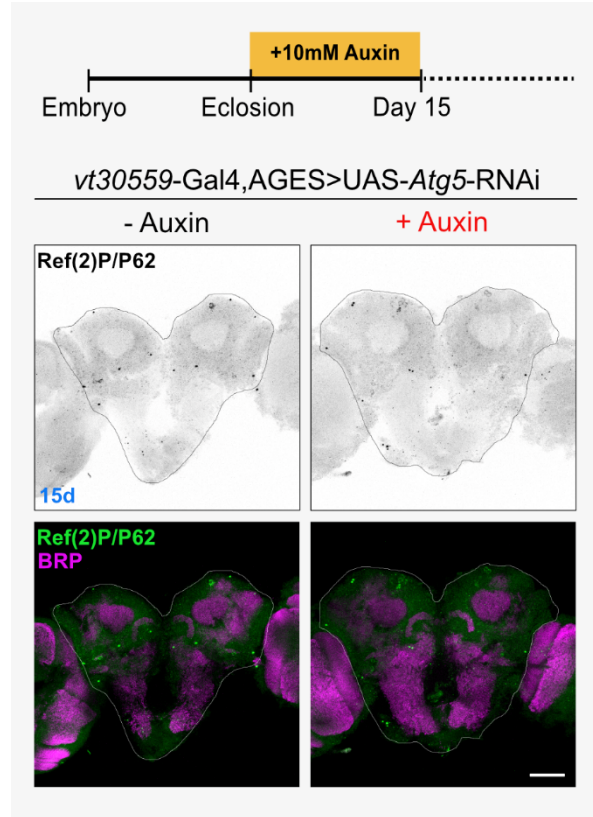
Knockdown of *Atg5* in dorsal-fan-shaped body neurons (*R23E10*-Gal4>UAS-*Atg5*-RNAi) in comparison to *R23E10*-Gal4/+ female control flies at 15d age. Brains were immunostained against BRP^{Nc82}, and measured whole brain mean BRP intensities were normalized to the *R23E10*-Gal4/+ control group. **(C)** Representative confocal max projections and **(D)** quantification of BRP intensities for 15d old female flies. Scale bar = 50 μ m; n = 14-15 adult brains per genotype pooled from 2 independent experiments; unpaired Two-tailed t-test. ns, not significant. **(E, F)** Knockdown of *Atg5* in helicon cells (*R24B11*-Gal4>UAS-*Atg5*-RNAi) in comparison to *R24B11*-Gal4/+ female control flies at 15d age. Brains were immunostained against BRP^{Nc82}, and measured whole brain mean BRP intensities were normalized to the *R24B11*-Gal4/+ control group. **(E)** Representative confocal max projections and **(F)** quantification of BRP intensities for 15d old female flies. Scale bar = 50 μ m; n = 16 adult brains per genotype pooled from 2 independent experiments; unpaired Two-tailed t-test. **p* = 0.0210. Data presented as mean $\pm$ SD.



Appendix Figure S2 – related to Fig. 3

Pan-neuronal or MB-specific re-expression of *Atg7* improves the survival of *Atg7^{d77}* mutants.

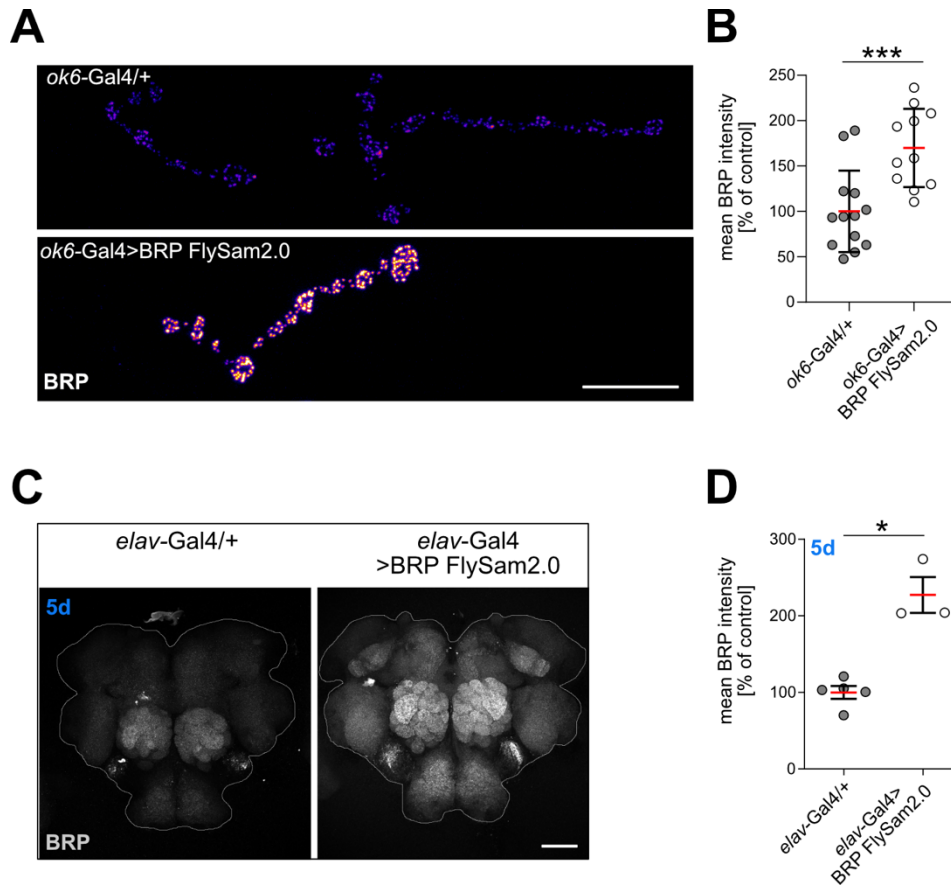
(A and B) Kaplan-Meier survival curves of male (A) and (B) female *Atg7^{d77}* flies with either pan-neuronal (*Atg7^{d77};R27E08-Gal4>UAS-Atg7*) or MB KC-specific (*Atg7^{d77};vt30559-Gal4>UAS-Atg7*) re-expression of *Atg7* compared to *Atg7^{d77};UAS-Atg7/+* control flies. Survival curves of *w¹¹¹⁸* was plotted as a wildtype control group. n = 126-135 flies per genotype and sex. Pairwise Log-rank (Mantel-Cox) test comparison. *****p* < 0.0001.



Appendix Figure S3 – related to Fig. 4

Post-developmental Auxin-induced expression of *Atg5*-RNAi within the MB KCs does not result in Ref(2)P/P62 aggregate formation at 15 days.

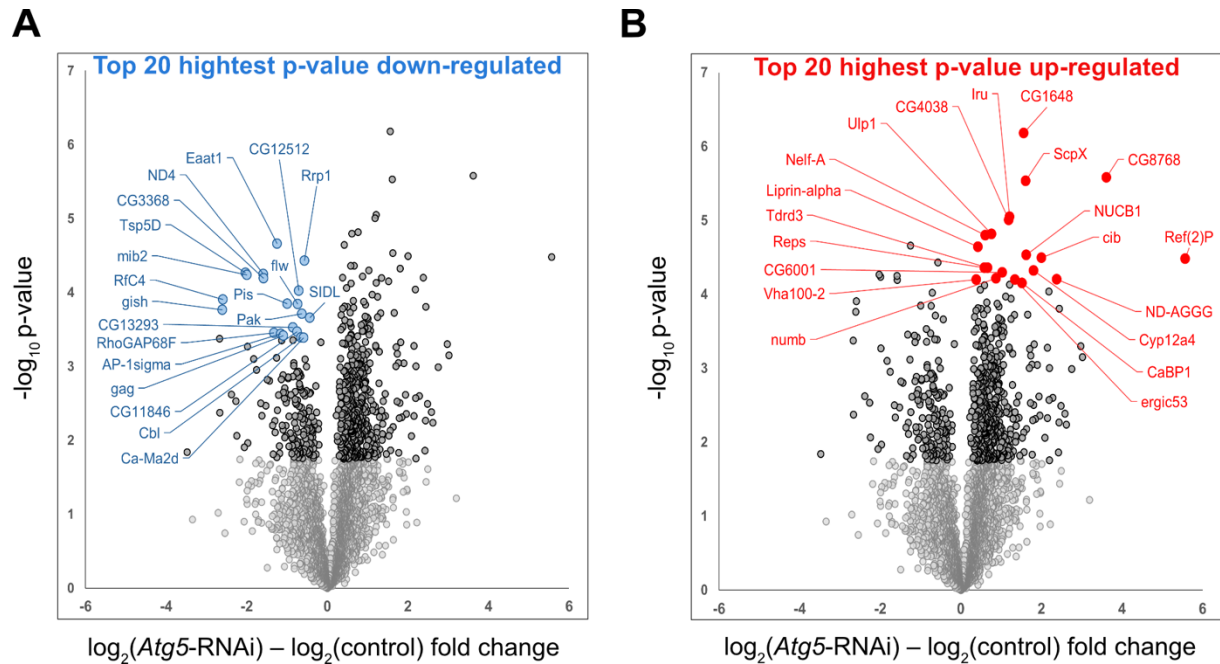
Representative confocal max projections of the posterior part of 15d old female fly brains, including the MB calyx region with MB KC cell bodies. *vt30559-Gal4, AGES>UAS-Atg5-RNAi* flies originating from the same cross were either supplemented with 10mM Auxin between day 1 and day 15 post-eclosion (+Auxin), or maintained on standard food (-Auxin) to investigate the effects of post-developmentally induced expression of *Atg5*-RNAi within the MB KCs. Ref(2)P/P62 immunostaining was used as molecular marker for assessing autophagy impairment, and the BRP^{Nc82} co-staining was employed to identify the MB calyx region. Scale bar = 50μm.



Appendix Figure S4 – related to Fig.4

Gal4-controlled activation of BRP FlySam2.0 robustly increases BRP levels at the larval neuromuscular junction (NMJ) and in the adult brain.

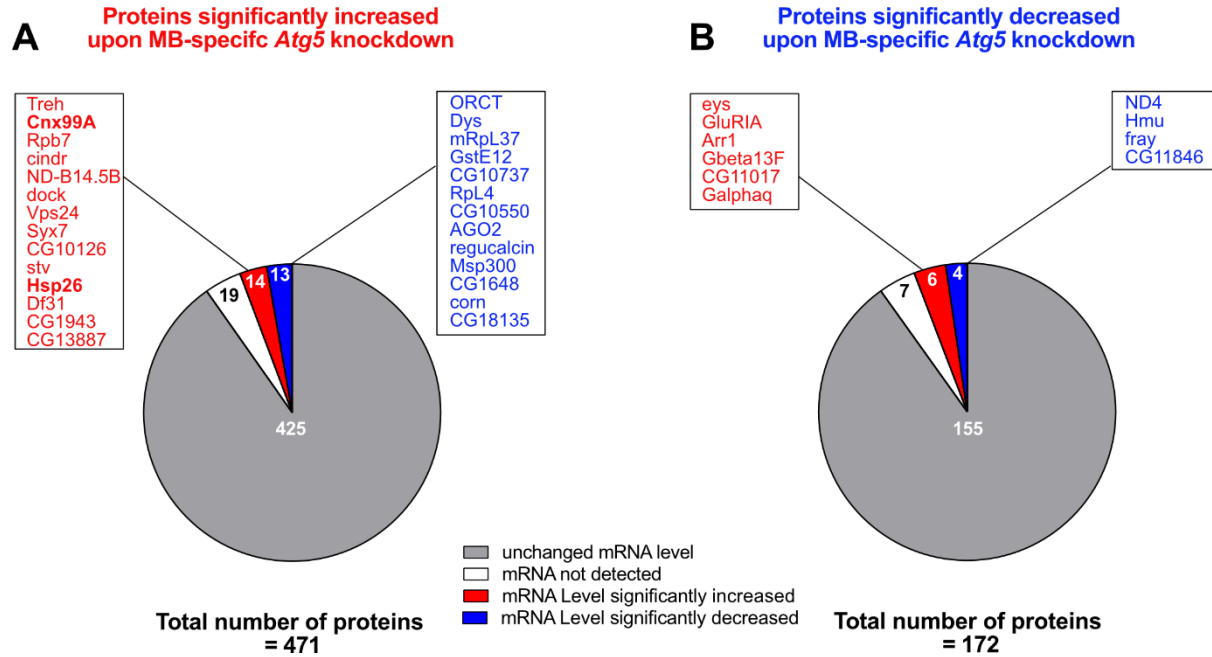
(A) Representative confocal Max projections of BRP signal at larval NMJs upon motor-neuron specific activation of BRP FlySam2.0 (*ok6-Gal4>BRP FlySam2.0*) in comparison to *ok6-Gal4/+* controls. Larval filets were immunostained against BRP^{Nc82}. Scale bar = 15 μ m **(B)** Quantification of BRP intensity at larval NMJs, normalized to *ok6-Gal4/+* controls. $n = 11-13$ NMJs per genotype acquired from 4 animals per genotype. Unpaired Two-tailed t-test. *** $p = 0.0008$ **(C)** Representative confocal Max projections of BRP levels in 5d old female adult *Drosophila* brains upon pan-neuronal activation of BRP FlySam2.0 (*elav-Gal4>BRP FlySam2.0*) in comparison to age-matched *elav-Gal4/+* controls. Brains were immunostained against BRP^{Nc82}. Scale bar = 50 μ m. **(D)** Quantification of whole brain mean BRP intensities, normalized to the *elav-Gal4/+* control group. $n = 3-5$ brains per genotype. Mann-Whitney test. * $p = 0.0357$; Data presented as mean $\pm$ SD.



Appendix Figure S5 – related to Fig. 6

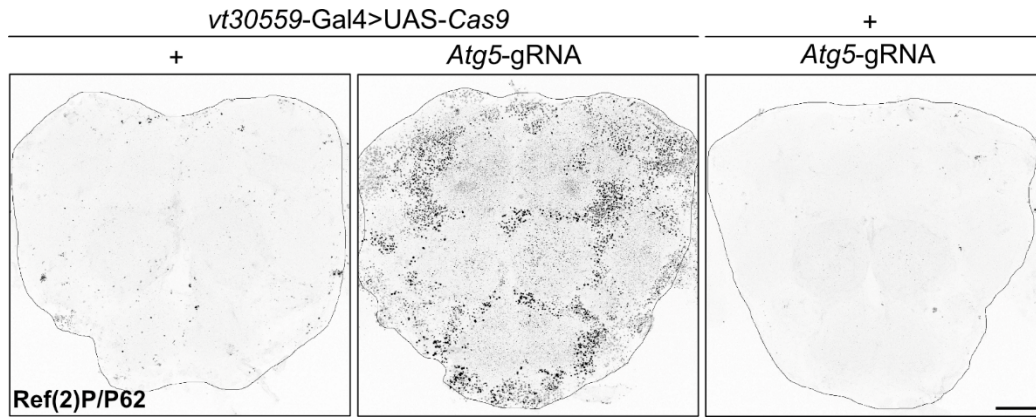
Volcano plots illustrating the Top 20 protein hits with the highest p-value significantly downregulated or upregulated in MB-autophagy impaired flies compared to controls.

(A, B) Volcano plots of all proteins identified in the proteomic data set, highlighting the Top20 downregulated **(A)** and upregulated **(B)** protein hits with the highest p-value identified in 10d old *ok107-Gal4>UAS-Atg5-RNAi* flies compared to age-matched *ok107-Gal4/+* controls. The $\log_2$ fold change on the x-axis is plotted against the $-\log_{10}$ p-value of the two-tailed t-test comparison on the y-axis. A $-\log_{10}$ p-value cut-off of 1.75 was used to identify significantly changed protein hits (dark grey points), identified proteins below this cutoff are depicted as light grey points. $n = 3-4$ biological replicates (10 dissected brains per replicate) per genotype.



Appendix Figure S6 – related to Fig. 6

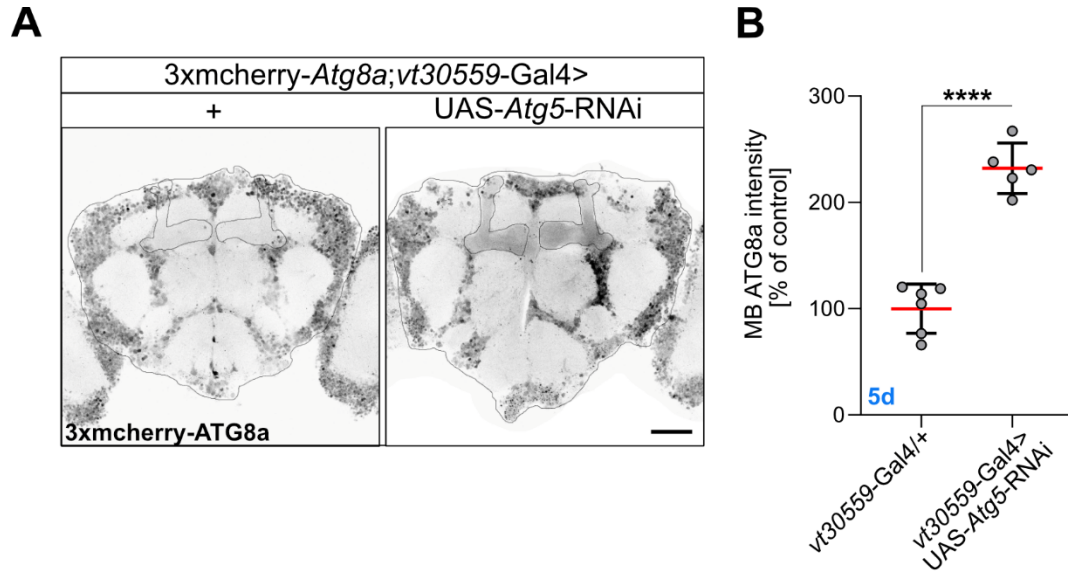
Proteomic changes in fly brains with MB-specific *Atg5* knockdown are largely mediated post-transcriptionally. Correlation of all significantly increased (A) or decreased (B) proteins in *ok107-Gal4>UAS-Atg5-RNAi* fly brains compared to *ok107-Gal4/+* controls detected in the proteomic experiment with the data set acquired by RNA-Seq. Candidates with significantly changed expression at mRNA and protein level are depicted in the boxes.



Appendix Figure S7 – related to Fig. 7

Somatic CRISPR/Cas9-mediated conditional knockout of *Atg5* specifically in MB KCs results in widespread non-cell autonomous accumulation of Ref(2)P/P62.

Representative confocal max projections of whole-mount 5d old female fly brains immunostained against Ref(2)P/P62. The expression of *Cas9* in the MB under control of *vt30559-Gal4* and the simultaneous presence of an ubiquitously expressed *Atg5-gRNA* induces site-directed DNA double stand breaks into the *Atg5* gene exclusively in the MB KCs. Scale bar = 50 μ m.



Appendix Figure S8 – related to Fig. 8

Synaptic accumulation of ATG8a in the MB lobes upon *vt30559*-Gal4 mediated knockdown of *Atg5*.

(A) Representative confocal max projections of the fluorescent signal of the endogenous promoter-driven 3xmCherry-*Atg8a* reporter in *vt30559*-Gal4>UAS-*Atg5*-RNAi and *vt30559*-Gal4>+ control brains, imaged from the anterior side. Scale bar = 50 μ m (B) Quantification of the 3xmCherry-ATG8a fluorescent signal inside the MB lobes. Representative ROIs surrounding the MB lobes are depicted in (A). n = 5-6 MB lobes analyzed per genotype. Unpaired two-tailed t-test. **** p < 0.0001. Data presented as mean $\pm$ SD.

Appendix Table S1 – related to Fig. 5+6

All significantly upregulated proteins upon MB-specific *Atg5* knockdown

Protein ID	Flybase	Gene Name	Student's T-test Difference ATG5 RNAi_ctrl	-Log Student's T-test p- value ATG5 RNAi_ctrl
Q7K2P3	FBgn0033446	CG1648	1.559679508	6.180024352
Q8T0N5	FBgn0033769	CG8768	3.61668396	5.581058227
Q9VJ43	FBgn0015808	ScpX	1.609803677	5.531523801
Q9VHI7	FBgn0037653	lru	1.212962151	5.04810325
A8E6K0	FBgn0011824	CG4038	1.186741829	5.004553488
Q9VWK5	FBgn0027603	Ulp1	0.76397419	4.81542428
A0A0B4LIF3	FBgn0038872	Nelf-A	0.611036301	4.79610967
Q9VM93	FBgn0046704	Liprin-alpha	0.42342186	4.64150071
Q1EC31	FBgn0052190	NUCB1	1.62173748	4.531294878
O97428	FBgn0026084	cib	2.001122475	4.491889754
P14199	FBgn0003231	ref(2)P	5.565166473	4.479433949
M9NDL7	FBgn0032341	Reps	0.584844589	4.360461509
Q9VUH8	FBgn0036450	Tdrd3	0.666800499	4.359333277
Q9VE00	FBgn0038681	Cyp12a4	1.807024479	4.321889975
A0A0B4LHR2	FBgn0051064	CG6001	1.030639648	4.296598375
M9PCN6	FBgn0002973	numb	0.877635479	4.214773382
Q7PL91	FBgn0058002	ND-AGGG	2.377919674	4.200582033
Q9VE75	FBgn0028670	Vha100-2	0.381268978	4.199039139
Q9V3A8	FBgn0035909	ergic53	1.343855858	4.196771926
Q9V438	FBgn0025678	CaBP1	1.51931715	4.149502417
Q9Y0Y5	FBgn0027496	epsilonCOP	1.210440159	4.129888924
Q59E58	FBgn0265434	zip	0.586822987	4.122669328
Q7KQM6	FBgn0039936	CG11148	0.479780674	4.061450418
Q9VIU4	FBgn0053116	CG33116	2.181749344	4.039069212
Q9V3N6	FBgn0028541	TM9SF4	1.113148689	3.971117532
Q9VXV6	FBgn0040285	Scamp	1.249063492	3.941331222
Q95NR4	FBgn0032679	bsf	0.642412186	3.888312632
F6JQA6	FBgn0025615	Torsin	0.902486324	3.873920986
Q8IQW5	FBgn0031037	HspB8	0.942337513	3.833654895
Q59DX2	FBgn0266756	btsz	0.428268433	3.811835146
O97417	FBgn0261397	didum	0.496436119	3.805379661
Q9VUB8	FBgn0061515	endos	2.446491718	3.805073215
Q2PDY2	FBgn0013263	Trl	0.654875755	3.792876982
B5X533	FBgn0030706	Lrp4	0.376559734	3.779355352
Q9VDW3	FBgn0260003	Dys	0.56616354	3.7273028
Q7JR91	FBgn0013305	Nmda1	1.657114029	3.724564358
Q8I7Q0	FBgn0025876	gag	1.326896667	3.720246429
Q9W347	FBgn0040234	c12.2	0.344968319	3.693387684
Q9VK58	FBgn0032455	Pih1D1	0.940951824	3.676218379
Q9VHN6	FBgn0037608	mRpL19	1.249351501	3.666720425
Q8IR92	FBgn0265595	CG42683	0.989835262	3.661289575
Q9VUQ5	FBgn0087035	AGO2	1.01206398	3.645359781
Q7YZA4	FBgn0025641	DAAM	0.432307243	3.62724248
E1JHM0	FBgn0032821	CdGAPr	0.560956478	3.595402446
M9PFF1	FBgn0020655	ArfGAP1	0.569808483	3.580061658
Q9V8R9	FBgn0010434	cora	0.886549473	3.575622388
Q7KW39	FBgn0023537	CG17896	0.843849182	3.560632842
Q9W254	FBgn0022985	qkr58E-2	1.058598042	3.555883477
Q9V8P0	FBgn0026179	siz	0.58856678	3.538436093
A0A0B4K7G3	FBgn0039883	RhoGAP100F	0.38231945	3.533062181
E1JIL7	FBgn0262483	Rbp	0.382414818	3.531500591
Q9VWK6	FBgn0030997	CG7990	0.935040951	3.515947695
Q9VTG0	FBgn0260795	NaPi-III	1.008313656	3.509472708
Q9U6X3	FBgn0027951	MTA1-like	0.336732388	3.497208386
X2J4W8	FBgn0266449	Kr-h2	1.070585251	3.482871574
M9PE74	FBgn0261710	nocte	0.899382114	3.477483467
Q9VF20	FBgn0038376	Hmt-1	0.870473862	3.475827291
Q9V3Y5	FBgn0028474	CG4119	0.589488029	3.432835374

Protein ID	Flybase	Gene Name	Student's T-test Difference ATG5 RNAi_ctrl	-Log Student's T-test p- value ATG5 RNAi_ctrl
M9PC74	FBgn0031673	CG9112	1.033864975	3.429007549
M9MS31	FBgn0261549	rdgA	0.581436157	3.416742008
Q3YMU0	FBgn0033663	ERp60	0.750228882	3.409169161
Q8SYN6	FBgn0035830	CG8209	0.528584957	3.381090575
A1ZBE9	FBgn0034401	MetRS	0.560018063	3.376626071
A0A126GUM8	FBgn0020279	lig	0.644701958	3.347122266
Q9VTJ4	FBgn0036169	Fuca	0.947486401	3.33030136
B7Z107	FBgn0259722	CG42376	1.820374489	3.324892932
M9PDH4	FBgn0023531	CG3791	0.378716469	3.315442764
P17972	FBgn0003386	Shaw	0.546954155	3.313341192
Q9VGG9	FBgn0051368	CG14729	0.426767826	3.31081168
Q8IHB6	FBgn0261625	GLS	2.975390434	3.299158023
M9NFP7	FBgn0260400	elav	0.457743645	3.295291727
Q9VXU2	FBgn0027287	Gmap	1.199504852	3.279206482
X2JD55	FBgn0004045	Yp1	2.152569771	3.27741127
Q9VC40	FBgn0039223	CG5805	0.736559868	3.274763598
O77134	FBgn0038224	ATPsynE	1.707364559	3.259407169
Q9VI56	FBgn0037468	CG1943	1.20650959	3.259306525
Q8SY33	FBgn0051992	gw	0.608628273	3.235509298
Q7KUX7	FBgn0262734	elF4H1	0.873892784	3.23005479
Q9VS57	FBgn0035771	Sec63	1.286948681	3.198097796
Q8T7V5	FBgn0028875	nAChRalpha5	1.023607254	3.193945326
A8JR03	FBgn0085412	kmr	0.59426403	3.172360952
Q7JVK8	FBgn0034362	CG5323	1.73666811	3.169868087
Q9VB96	FBgn0051075	CG31075	0.766214371	3.166379099
Q7KNS5	FBgn0022987	qkr54B	0.969668865	3.161912077
Q9VDY8	FBgn0267975	vib	3.021068573	3.151133786
X2JEC4	FBgn0085446	CG3960	0.872220516	3.151005793
Q7KV90	FBgn0010909	msn	0.572367191	3.149818421
Q86BS3	FBgn0044324	Chro	0.698696613	3.147203865
Q86BI3	FBgn0263603	Zn72D	0.763814926	3.122977457
A4V4W0	FBgn0016976	stnA	0.330391407	3.105677381
Q8IM93	FBgn0052017	CG32017	0.912090778	3.091064188
Q1RKQ9	FBgn0085382	CG5566	0.617788792	3.083077432
E1JIH1	FBgn0051352	Unc-115a	0.828317642	3.078103987
X2JAZ6	FBgn0036165	chrb	1.765043259	3.047248936
Q9IU72	FBgn0035321	CG1275	1.054427624	3.044494124
Q9VYU9	FBgn0030332	CG9360	1.896373272	3.043457542
Q9VU17	FBgn0036316	nebu	0.820839405	3.03585592
Q8IPA7	FBgn0052831	CG16917	0.802610874	3.031916799
Q9VXK9	FBgn0030716	CG9170	0.700047016	3.031558349
E0WN35	FBgn0015519	nicra3	0.740230083	3.022684008
Q8SX89	FBgn0038476	kuk	0.782693863	3.021672735
A8JQV3	FBgn0037525	CG17816	0.603003502	3.013520626
A0A0B4KEK7	FBgn0033669	PI31	0.856729031	3.010046415
H8F4P8	FBgn0000479	dnc	0.502356052	3.003696616
Q9VVV6	FBgn0036837	CG18135	2.19914341	3.002477943
M9PEM7	FBgn0028582	lqf	0.86951828	3.00130679
Q9VV95	FBgn0036656	CG13026	1.703688622	2.999700345
Q7JWU9	FBgn0034242	CG14480	0.494612694	2.99772878
P38040	FBgn0004921	Ggamma1	2.750299931	2.98945408
P13496	FBgn0001108	DCTN1-p150	0.31874609	2.98944294
Q7K0X9	FBgn0267849	Syx7	0.938266754	2.980470332
M9PBG8	FBgn0264707	RhoGEF3	0.522706985	2.970263141
Q9VVS6	FBgn0036813	Atg3	0.85214138	2.963735304
Q9VBK9	FBgn0039385	CG5913	0.528435707	2.958349348
Q9VRE0	FBgn0031149	Stt3A	0.569153309	2.94967878
M9PBN7	FBgn0011570	cpb	1.010475636	2.944980813
A0A0B4K7K9	FBgn0259246	brp	0.43570137	2.940144833
P17210	FBgn0001308	Khc	0.660561562	2.936903837
M9NFH8	FBgn0036663	GS	0.409172058	2.933736617
Q9VH98	FBgn0012344	Dh44	0.888766766	2.932098268
Q8IRB9	FBgn0264693	ens	0.826870441	2.928297094

Protein ID	Flybase	Gene Name	Student's T-test Difference ATG5 RNAi_ctrl	-Log Student's T-test p- value ATG5 RNAi_ctrl
Q9W2V2	FBgn0052683	CG15303	0.458001614	2.913727523
Q9W0S7	FBgn0035121	Tudor-SN	0.625941277	2.911511925
A0A126GUS4	FBgn0053208	Mical	0.88074255	2.910329588
Q7K126	FBgn0033029	Not3	0.816794872	2.908519076
Q9Y111	FBgn0026206	mei-P26	0.911016464	2.886774099
Q24319	FBgn0014868	Ost48	0.710199356	2.884303316
Q9VEJ5	FBgn0261046	Dscam3	0.479027748	2.882004846
A0A0B4LGZ0	FBgn0051352	Unc-115a	0.479701996	2.873421942
O62621	FBgn0025724	beta'COP	0.740339279	2.863940633
X2JGR4	FBgn0000017	Abl	0.663938999	2.863803771
Q9W0H8	FBgn0025682	scf	0.61348772	2.85281839
P42787	FBgn0004648	svr	0.567816257	2.851141936
A0A0B4KGN2	FBgn0019960	Mitofilin	0.49845171	2.844339708
Q7YU85	FBgn0027598	cindr	0.588870525	2.829385598
Q709R6	FBgn0037719	bocks	0.747193813	2.828057286
A4V2I0	FBgn0000071	Ama	0.655789852	2.826978992
P13709	FBgn0004656	fs(1)h	0.784294605	2.816099575
Q8WR08	FBgn0034072	Dg	0.490888596	2.813910956
X2JFR1	FBgn0004227	nonA	0.547379971	2.810875499
A0A0B4LHT3	FBgn0265274	Inx3	0.778326035	2.808978624
Q9VBU5	FBgn0039304	CG10425	0.624582767	2.79829521
Q9GPPQ1	FBgn0033520	Prx2540-1	0.952177525	2.796132473
Q7KTU2	FBgn0052451	SPoCk	0.305841923	2.787593556
Q9VHA8	FBgn0037718	P58IPK	0.72527647	2.78454446
B5RIU6	FBgn0038659	EndoA	0.454913616	2.78386418
Q9VNA2	FBgn0013576	mtd	0.418243408	2.780400559
Q9VA97	FBgn0039751	CG1983	0.758174896	2.780033755
Q8T0Q4	FBgn0086656	shrb	0.938057899	2.778002686
Q4QQ70	FBgn0030694	CG15602	1.283683777	2.771654407
E6PBV6	FBgn0030151	CG1354-RA	0.927331924	2.76660958
Q24523	FBgn0259176	bun	0.539965153	2.757590193
Q9W384	FBgn0030093	Bap111	0.500801563	2.754579862
M9PEU6	FBgn0264305	CG5741	0.394497395	2.753894046
Q9VXI3	FBgn0030734	CG9911	0.797796726	2.753124527
Q9W1R3	FBgn0034854	Golgin245	0.813738823	2.751201099
H1UUG6	FBgn0033846	mip120	0.759030342	2.744914787
Q7JWI7	FBgn0033028	hrm	0.731140137	2.740638517
Q9NAZ4	FBgn0053126	NLaz	0.505874634	2.732007116
A8DYK5	FBgn0034598	cg4266	0.561712742	2.725598017
A0A126GUN3	FBgn0267002	unc-104	0.301437378	2.721088337
Q9V9N5	FBgn0261802	CG42748	0.720464706	2.71586099
Q7JRC3	FBgn0010053	Jheh1	0.519627571	2.705972976
A0A0F6QCW0	FBgn0013432	bcn92	0.949622631	2.704491976
M9MS14	FBgn0025631	moody	0.915418148	2.699320236
X2JGP4	FBgn0014002	Pdi	0.651749134	2.692496197
Q9VNA3	FBgn0037312	CG11999	0.999297619	2.683665325
A0AN20	FBgn0031817	CG9531	0.434117317	2.67318379
O61613	FBgn0020392	Nmt	0.54317522	2.670900887
A0A126GUM1	FBgn0263102	psq	0.301305294	2.660265953
Q9VYR1	FBgn0030362	regucalcin	1.072425842	2.653181747
Q8T9D5	FBgn0030478	CG1640	0.569777489	2.647864758
B7YZL7	FBgn0034420	CG10737	0.590616226	2.637989985
Q9U4F3	FBgn0029117	Surf1	1.435103416	2.627506066
Q9VC66	FBgn0039204	CG6607	0.509538174	2.626528825
E1JHT2	FBgn0011603	ine	0.709859848	2.615839609
Q9VR57	FBgn0031190	CG12576	1.939256668	2.615742044
M9NCX1	FBgn0002121	l(2)gl	0.569170475	2.612280699
Q9W247	FBgn0034733	CG4752	0.501574516	2.610290379
Q8IMF5	FBgn0002645	Map205	0.939098835	2.601105429
V9H0A0	FBgn0016662	gag	2.284747124	2.601093259
X2JCX8	FBgn0004404	RpS14b	0.879567146	2.599615005
Q9VJH2	FBgn0051739	Asprs-m	0.333879471	2.595595203
Q9W2M0	FBgn0034585	Rbpn-5	0.344696522	2.583216002

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O62531	FBgn0024833	AP-1mu	0.601736546	2.571265544
M9PHM1	FBgn0259173	corn	2.189641476	2.570957215
A0A0B4LHE0	FBgn0261794	kcc	0.847440243	2.569667418
M9PBF6	FBgn0023388	Dap160	0.466516972	2.559330508
Q9VK59	FBgn0032454	CG5787	0.539141655	2.558110109
Q8IRI5	FBgn0024277	trio	0.849539757	2.548267896
Q9VR62	FBgn0031194	PP2C	0.575130939	2.543075127
E2QD65	FBgn0010412	RpS19a	1.086164474	2.540880464
Q9Y1A7	FBgn0002778	mnd	0.501338482	2.540469704
P31007	FBgn0001624	dlg1	0.47742033	2.531043064
Q9VV76	FBgn0036643	Syx8	1.389786243	2.530538568
Q9VB02	FBgn0039543	CROT	1.732679367	2.527338501
Q9VN02	FBgn0037231	Vps24	0.867722988	2.525855815
Q9W2Y5	FBgn0052685	ZAP3	0.605772018	2.524061031
Q9V455	FBgn0027338	Kap-alpha3	0.597454548	2.521586634
X2JD82	FBgn0017561	Ork1	0.832496166	2.507960524
Q9W3W9	FBgn0029896	LP06294.5prime	1.80318737	2.50455042
Q7K3D4	FBgn0034368	zda	0.847662926	2.501861008
Q9VPU1	FBgn0010583	dock	0.711231709	2.500311276
A0A0B4KHB2	FBgn0020496	CtBP	0.803299904	2.493220714
Q0E930	FBgn0028496	CG30116	2.486050129	2.492442893
Q961J5	FBgn0033778	Balat	0.338793278	2.491416283
Q9VXG0	FBgn0030752	CDC50	0.616394997	2.489299866
M9NEH6	FBgn0026428	HDAC6	0.502477169	2.484405379
Q9VJ58	FBgn0025608	Faf2	0.656838417	2.484008734
M9PC26	FBgn0263846	CG10020	0.64632988	2.483036247
Q9VKW8	FBgn0032240	CG5356	1.144766808	2.478822748
O97125	FBgn0001230	Hsp68	0.768706799	2.465846754
Q7KU45	FBgn0022153	l(2)k05819	0.567430019	2.461365102
Q9VH64	FBgn0037756	CG8507	0.941309452	2.459384762
Q24418	FBgn0010399	Nmdar1	0.584379673	2.457300788
P29746	FBgn0001090	bnb	1.191353798	2.455216415
M9NFR5	FBgn0022959	yps	0.805016518	2.449301457
E2QCK0	FBgn0050404	Tango11	0.796741486	2.44705357
Q867Z4	FBgn0005630	lola	0.757752895	2.442683549
X2JAT7	FBgn0000636	Fas3	0.762407303	2.4367254
Q9VWP4	FBgn0030966	shop	0.52799511	2.435929337
R9Q794	FBgn0064225	RpL5	0.808803558	2.430274917
Q9VXZ8	FBgn0027601	pdgy	0.888380527	2.423591671
Q9VJ30	FBgn0015772	Nak	0.437388897	2.419092829
E4NKG1	FBgn0042134	Capr	0.607332706	2.418807287
Q9VU83	FBgn0086708	stv	0.974002838	2.415198508
A4UZR3	FBgn0003748	Treh	0.273539066	2.412960112
M9PIH3	FBgn0037098	Wnk	0.750164986	2.405975586
Q99323	FBgn0265434	zip	1.12364006	2.405790788
Q8MRW1	FBgn0267976	Tim23	1.345817089	2.404016856
Q9VKA4	FBgn0051760	CG31760	0.491872787	2.39532809
Q9VMC7	FBgn0051638	CG9545	0.784432411	2.394765319
E9P245	FBgn0264294	Cyt-b5	1.192165852	2.389325871
Q9VXN3	FBgn0030699	CG8578	0.532962322	2.384475834
Q9VRI9	FBgn0031182	Cyp6t1	0.995396137	2.383762705
Q9VCC6	FBgn0039156	CG6178	2.580887794	2.383477385
Q8IGW0	FBgn0015582	dare	0.945400238	2.383368397
Q7K5K3	FBgn0039635	Pdhh	0.450385094	2.378604239
B5RIZ2	FBgn0038747	RhoGAP92B	0.715254307	2.374410266
Q9VVF9	FBgn0038145	Droj2	0.52657795	2.368915102
Q7K2E1	FBgn0033717	CG8839	0.376251698	2.36803182
O46067	FBgn0023529	GRP170	0.413895607	2.3640153
A0A0B4K885	FBgn0041205	key	1.963984966	2.358905095
Q9Y139	FBgn0027582	CG6230	0.673618793	2.35521567
L0MPN7	FBgn0039908	Asator	0.355072498	2.348882818
D2NUG3	FBgn0270928	VACHT	0.81664753	2.348307014
M9ZVK8	FBgn0011638	La	0.71808672	2.347804114

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M9PID3	FBgn0037027	HIPP1	0.663259029	2.34644954
M9NG39	FBgn0004401	Pep	0.54216671	2.343437925
E2QCY9	FBgn0004575	Syn	0.467128277	2.342101996
M9PG43	FBgn0003744	trc	0.607552052	2.338669671
Q24478	FBgn0000283	Cp190	0.225794792	2.338530334
Q9VDI5	FBgn0038829	CG17271	1.439640045	2.328590603
A0A0B4JD21	FBgn0033983	ADPS	2.150292873	2.327544199
Q9VC10	FBgn0265190	PIG-S	0.731011868	2.322521833
A1Z6Q0	FBgn0265003	koi	0.644662857	2.320133729
M9PBW0	FBgn0035853	UbcE2M	1.37896204	2.316414678
Q9VEN1	FBgn0014141	cher	1.292876244	2.316343151
Q8SXQ1	FBgn0036857	Aldh7A1	0.503893375	2.313081399
A0A0B4K6Y4	FBgn0004395	unk	1.84774065	2.312005157
Q9W0R0	FBgn0265574	Cdc5	0.650714874	2.311364031
P54353	FBgn0015379	dod	0.814435959	2.310872809
Q9V3Q9	FBgn0260446	GABA-B-R1	0.355745792	2.307826393
Q95RR2	FBgn0039186	CG5746	0.874632835	2.303363897
Q9VQI8	FBgn0024947	NTPase	0.501927376	2.298013005
H0RNK5	FBgn0036889	CG14100	1.788659573	2.297760047
Q9VHM3	FBgn0037621	M1BP	0.747713566	2.297321648
P09180	FBgn0003279	RpL4	0.729194164	2.292139908
Q8MR50	FBgn0033229	CG12822	0.743739605	2.2871125
Q9VZ00	FBgn0030293	CG1737	0.522981167	2.287036519
O61491	FBgn0024754	Flo1	0.370693207	2.272835177
A0A0S0X8K7	FBgn0250874	ttm50	0.839575768	2.272088614
D5AEP6	FBgn0243578	AnnX	0.956786633	2.270945661
A1Z9L2	FBgn0033897	Rcd1	0.633444309	2.270649356
B7YZQ9	FBgn0035092	Nplp1	2.435664177	2.265996388
Q9VDE9	FBgn0038853	RhoGAP93B	0.625634193	2.264836694
X2JJP5	FBgn0052654	Sec16	0.859406948	2.262590211
O61650	FBgn0024352	Stip1	0.691052914	2.256183149
Q9VMI2	FBgn0031772	CG13994	0.794898033	2.250700933
Q7K3S2	FBgn0033426	CG1814-RB	0.505489826	2.248167281
A4V2K7	FBgn0000412	D1	0.881549835	2.243923452
A0A0B4KH51	FBgn0020510	Abi	0.632632732	2.240165003
Q9VUQ9	FBgn0267390	dop	0.771681309	2.239667947
Q9V419	FBgn0028940	Cyp28a5	0.613331318	2.237965303
X2JB25	FBgn0005391	Yp2	2.621832371	2.237452834
R9QRD4	FBgn0019952	ORCT	0.501724243	2.226927106
Q9V9Y0	FBgn0039844	CG1607	0.595664978	2.225816665
Q9VBS7	FBgn0039321	CG10550	0.945419312	2.220817162
Q9VMB9	FBgn0031830	COX5B	1.374547482	2.219830941
M9PF68	FBgn0004381	Klp68D	0.335768223	2.219206492
Q9W158	FBgn0035016	CG4612	0.566883087	2.218142134
Q9VWD9	FBgn0031057	Ubqn	0.578613758	2.216186278
Q95SQ6	FBgn0020372	TM4SF	0.985240936	2.208203664
A0A0B4K812	FBgn0015754	Lis-1	0.815336704	2.202449335
Q9W0D3	FBgn0035237	CG13917	0.715898991	2.200031086
Q9XZ19	FBgn0027524	CG3909	0.662519932	2.199816752
Q9V3V9	FBgn0028515	EndoGl	0.774765968	2.199579733
Q9VYT1	FBgn0030346	BORCS5	0.691252232	2.191169345
Q9VBZ5	FBgn0039261	Ythdf	0.550411701	2.190524218
Q8MT58	FBgn0259979	Cndp2	0.436166286	2.18818672
Q8IR41	FBgn0263994	CG43737	0.501888275	2.186843199
Q9W3X7	FBgn0029888	ND-ASHI	0.859421253	2.18624106
Q9VPG2	FBgn0036984	dCat-4	0.755281925	2.184660457
X2JD88	FBgn0264502	CG15207	0.36216259	2.181653351
O02195	FBgn0015834	eIF3i	0.566663265	2.179210539
Q7K2N0	FBgn0033309	Ln timer	1.62876749	2.178524585
M9PIM0	FBgn0024733	RpL10	1.02192831	2.177844309
B6IDW8	FBgn0053558	CG33558	0.848483562	2.169582679
Q9VXE8	FBgn0267384	Ubc7	1.231104374	2.167932362
A8JV09	FBgn0029903	pod1	0.463968754	2.166746563

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Q8T0L4	FBgn0000289	cg	0.764501572	2.163330581
Q9VYV5	FBgn0030327	FucT6	0.974027634	2.159410055
Q09332	FBgn0014075	Uggt	0.362892151	2.158561273
A8DYW5	FBgn0028703	Nhe3	0.339920044	2.154227187
Q0KI68	FBgn0262527	ns1	0.724935532	2.153695515
Q9VY16	FBgn0030581	CG14408	0.474517345	2.150547496
B7FNJ7	FBgn0031450	Hrs	0.58426857	2.145877126
M9NGQ9	FBgn0046687	Tre1	0.978375435	2.145574177
Q9VGW9	FBgn0261380	mRpL37	0.568697929	2.14533289
O44434	FBgn0022984	qkr58E-3	0.604176521	2.136560563
Q0E8J0	FBgn0035357	MEP-1	0.589755058	2.134319017
B6IDQ5	FBgn0035593	CG4603-RA	0.587385178	2.133576915
Q9VN95	FBgn0037305	CG12173	0.611679554	2.132684872
F3YDH0	FBgn0001218	Hsc70-3	0.623568058	2.132116634
A1ZBH2	FBgn0034419	CG15111	0.779883862	2.131901405
Q9W2U8	FBgn0083167	Neb-cGP	1.563018322	2.131526514
A8JV04	FBgn0030735	CG3632	0.602939606	2.128882595
Q9W0L7	FBgn0052479	Usp10	0.994760036	2.126996261
Q95SB2	FBgn0022344	CG10340	0.665497303	2.126331607
Q9VPE8	FBgn0036997	CG5955	0.934125423	2.122043868
Q9VZU7	FBgn0035402	Usp5	0.442691326	2.119471949
V5M2P5	FBgn0053547	Rim	0.616991997	2.117365906
Q9V400	FBgn0028427	Ilk	1.22875309	2.106238969
Q9VYM7	FBgn0259143	Prip14	0.752135277	2.104900071
D2NUK5	FBgn0022343	CG3760	1.09265852	2.104143345
A0A0B4LFE1	FBgn0033951	CG10139	0.633892536	2.103685323
Q9W3J5	FBgn0030007	alpha-PheRS	0.64369154	2.101732975
Q9VAN7	FBgn0014869	Pg1ym78	0.752728462	2.101324882
E2QD00	FBgn0037374	jagn	0.622564316	2.096042078
Q9VWP8	FBgn0259927	CG32543	0.459004402	2.09231501
E1JJ98	FBgn0003464	sol	1.367950916	2.086484957
E1JH83	FBgn0034145	CG5065	0.875044346	2.085643128
E1JJ4	FBgn0038063	Octbeta2R	0.778123856	2.080861131
A8Y560	FBgn0028697	RpL15	1.379717827	2.077897308
Q9V3L7	FBgn0027785	NP15.6	0.830290794	2.075431452
M9PFU0	FBgn0264308	CG15639	0.842409134	2.074245366
Q9VEH0	FBgn0038535	alt	0.698494911	2.073884781
Q960C7	FBgn0033205	CG2064	0.816527367	2.073797501
Q9VG23	FBgn0038088	CG10126	0.940752983	2.071414533
Q9VB3	FBgn0259146	fid	1.072065353	2.069899834
Q9VY92	FBgn0030519	CG11151	1.529267788	2.060657576
O96046	FBgn0025865	Cortactin	0.877203941	2.058689749
A0A0B4K8A1	FBgn0003435	sm	2.084187508	2.057332839
Q9VHY7	FBgn0260005	wtrw	0.445888042	2.054847272
Q9VL89	FBgn0025117	und	0.247352123	2.054636418
Q9I7T7	FBgn0035424	Larp4B	0.625384331	2.053936554
Q9VT00	FBgn0036004	Jarid2	0.848642826	2.04556758
A0A0B4LQG8	FBgn0086605	CG9853	0.384590149	2.039317906
Q8IGD6	FBgn0036239	Pop2	1.188744545	2.034415163
A0A0B4LGY8	FBgn0263395	hppy	0.637890816	2.033949314
Q86DS7	FBgn0263106	DnaJ-1	0.446942806	2.03279544
Q9VKH0	FBgn0032361	Cog8	0.519154549	2.025627054
Q8IQF1	FBgn0263241	Mocs1	1.127472878	2.024049609
E1JHJ9	FBgn0020503	CLIP-190	0.380075455	2.020387587
Q9VEW6	FBgn0038418	pad	0.791833878	2.019995276
Q9VJZ5	FBgn0051852	Tap42	0.494419575	2.017127214
Q9VQK7	FBgn0031493	Sf3b2	0.295649052	2.011636893
Q7K519	FBgn0033272	RagC-D	0.406216145	2.011030448
A0A0B4LHE7	FBgn0283536	Vha13	1.027782917	2.008905463
Q9VC58	FBgn0039212	Syx18	0.681842804	2.006784155
A0A4D6K3W6	FBgn0003204	ras	0.413764477	2.005737966
Q9VWD0	FBgn0052528	parvin	1.355480194	2.004973
Q9W236	FBgn0034744	Vps20	1.015503407	2.000698529

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X2JCS0	FBgn0029864	CG15894	0.691566944	2.00031089
A4UZL5	FBgn0010226	GstS1	0.798205376	1.994930972
A0A0B4LI86	FBgn0262955	RpII140	0.255694389	1.993088997
P32748	FBgn0000447	Dhod	0.819711685	1.992885149
M9PJK5	FBgn0267001	Ten-a	0.325946331	1.981993936
Q9VWV3	FBgn0036843	Sfxn2	0.45031929	1.973695807
Q7KTU3	FBgn0037188	CG7369	0.715139389	1.967917882
Q8SXS0	FBgn0260467	CG7071	1.078880787	1.966948203
Q9V405	FBgn0028686	Rpt3	0.367323399	1.964251565
Q9VCA0	FBgn0039178	CG6356	0.756425381	1.961749907
B5RJ70	FBgn0086913	Rab26	0.600113869	1.957760366
A0A0B4KI59	FBgn0039730	CG7903	0.719232082	1.948861949
A8DZ29	FBgn0023213	elF4G1	0.545462132	1.948620419
Q9VXP3	FBgn0030692	mRpS30	0.716902733	1.947002105
Q9VN25	FBgn0037249	elF3a	0.337666512	1.942765078
A1Z934	FBgn0033761	CG8778	0.611711979	1.940732878
Q9XYZ9	FBgn0027590	GstE12	0.577888489	1.939647424
A0A0B4K5Z4	FBgn0263346	smash	1.216524124	1.932995979
M9PBZ9	FBgn0015218	elF4E1	0.580943584	1.930878361
Q9VNR6	FBgn0010830	l(3)04053	0.70059967	1.9304109
M9MRJ4	FBgn0261836	Msp300	1.175998688	1.926941439
A0A0B4LH72	FBgn0038387	blp	0.974612236	1.926611313
Q9W255	FBgn0022986	qkr58E-1	0.567928314	1.920557947
Q9W2M4	FBgn0034583	CG10527	0.513288498	1.92032282
A0A0B4KFL2	FBgn0033844	bbc	1.031865597	1.912737478
M9PHL6	FBgn0014133	bif	0.50838089	1.911459818
T2FFB7	FBgn0027094	Aats-ala	0.342301846	1.904721408
X2J935	FBgn0032725	Nedd8	0.629517555	1.901673656
P20240	FBgn0266420	Ote	0.738916397	1.895296063
Q9W1I8	FBgn0034913	Snap29	0.589827538	1.894275713
H0RN81	FBgn0013954	FK506-bp2	0.747964859	1.89303944
Q9W1I7	FBgn0034914	CG5554	0.60035038	1.885528143
Q9W022	FBgn0035334	CG8993	1.166200638	1.880161318
O77410	FBgn0025582	elF3e	0.575661659	1.877870054
H0RND2	FBgn0035944	CG5021	1.300353527	1.876496484
Q9U6R9	FBgn0028552	gammaSnap1	0.591356754	1.873763622
M9PCV9	FBgn0036740	Vps60	0.547489643	1.873528152
X2JGG6	FBgn0001225	Hsp26	1.039604664	1.872262948
Q8T410	FBgn0015622	Cnx99A	0.480555534	1.871076778
Q9VFU7	FBgn0038156	side-IV	0.755821705	1.869352757
E0R905	FBgn0265276	l(3)neo38	1.569259167	1.864891316
Q9VF39	FBgn0038360	CG9590	0.454161644	1.86250128
M9PG62	FBgn0261396	Rpn3	0.432284355	1.861283168
M9PC95	FBgn0259111	Ndae1	1.057449341	1.859416919
A0A0B4K7R1	FBgn0039172	Spase22-23	2.425182343	1.85891333
Q8SX35	FBgn0052850	RNF-11	0.81262064	1.852691521
A0A0B4KFB8	FBgn0261641	CG31367	0.619298935	1.851877477
Q9Y134	FBgn0001986	Mtr4	0.817131519	1.850253205
Q9VEH2	FBgn0038533	CG7523	0.87869072	1.849607854
A4V3W8	FBgn0040384	CG2716	1.075758457	1.846788157
Q9VQM2	FBgn0031505	ND-B14.5B	0.692460537	1.842114922
M9PDX2	FBgn0031306	CG4577	1.219779015	1.838339953
O16043	FBgn0022893	Df31	1.067259312	1.836700205
Q9VDE6	FBgn0038856	Sec15	0.43406868	1.836666255
P53624	FBgn0259170	alpha-Man-1a	0.540560246	1.834540342
Q9VFP0	FBgn0038195	CG3061	0.655666828	1.834152108
C9DA46	FBgn0034381	CG15088	0.441271782	1.831381367
Q9W0H3	FBgn0035206	CG9186	0.898369789	1.831309519
Q9W0M4	FBgn0035165	CG13887	1.768850327	1.830468248
Q7KKI0	FBgn0010621	CCT5	0.408788204	1.829860243
Q9VQR2	FBgn0021967	ND-PDSW	0.351341248	1.824233464
Q9W003	FBgn0010905	Spn	0.559258938	1.822470572
P22979	FBgn0001229	Hsp67Bc	1.161046028	1.821731414

Protein ID	Flybase	Gene Name	Student's T-test Difference ATG5 RNAi_ctrl	-Log Student's T-test p- value ATG5 RNAi_ctrl
Q7KMS3	FBgn0024196	robl	0.90882206	1.821656793
M9PD94	FBgn0020309	crol	1.463421345	1.81687636
Q9VI04	FBgn0037513	pyd3	0.683083534	1.812171851
Q9VRP3	FBgn0035631	Txl	0.807836533	1.811020697
Q9VB22	FBgn0040080	pins	0.332633495	1.809950395
B6IDR5	FBgn0035471	Sc2	1.251073837	1.808463362
Q9VZN2	FBgn0052264	CG10857	0.824276447	1.807619107
M9PAY9	FBgn0031257	CG4133	0.695230961	1.805248261
Q7JZN0	FBgn0010638	Sec61beta	1.014738083	1.804746996
Q9VXF9	FBgn0030753	rngo	0.725404739	1.80356264
Q9W3M4	FBgn0027280	l(1)G0193	0.755786896	1.799642879
P17336	FBgn0000261	Cat	0.517500877	1.796959279
A0A0B4KFD5	FBgn0025720	Ate1	1.006466389	1.794018185
D0Z769	FBgn0003277	RplI215	0.29711771	1.789741495
Q9V4C4	FBgn0039900	Syt7	0.357459068	1.786533408
Q9VC99	FBgn0263398	Uck	0.591138363	1.786429701
Q7KLX3	FBgn0021795	Tapdelta	0.550311565	1.782538321
A8JNN5	FBgn0035879	GAPcenA	0.654286385	1.781634633
Q9VZY9	FBgn0027082	ProRS-m	0.666903973	1.78139746
Q7KTP7	FBgn0264743	CG5822	0.626621723	1.778949999
M9PBM2	FBgn0004875	enc	0.799704552	1.777194209
Q9VCE9	FBgn0039137	CG13604	0.395349979	1.776354901
Q9VXV4	FBgn0030638	CG11655	1.180544853	1.773751146
Q9W1G7	FBgn0015268	Nap1	0.461096764	1.773493898
Q9VQX6	FBgn0031590	CG3702	0.8254776	1.773227329
Q8SYJ2	FBgn0052230	ND-MLRQ	0.845507622	1.771019361
E1JI22	FBgn0024814	Clc	0.722640991	1.769780472
A0A0B4LIJ0	FBgn0015282	Rpt2	0.401573181	1.765774957
A0A0B4KHR8	FBgn0043884	mask	0.460790157	1.764963326
T2FGC6	FBgn0039827	CG1544	0.692691803	1.764276586
M9PIC3	FBgn0037010	Pss	1.01265955	1.757365725
Q0E8X8	FBgn0040660	CG13551	2.200327396	1.755560156
Q95U32	FBgn0051344	Rpb7	0.519425392	1.753592582
Q0KHZ4	FBgn0083969	CG34133	0.527424812	1.75301273
Q8SYD9	FBgn0034433	EndoB	0.408331871	1.75120656

Appendix Table S2 – related to Fig. 5+6

All significantly downregulated proteins upon MB-specific *Atg5* knockdown

Protein ID	Flybase	Gene Name	Student's T-test Difference ATG5 RNAi_ctrl	-Log Student's T-test p- value ATG5 RNAi_ctrl
Q5BIC0	FBgn0026439	Eaat1	-1.247505665	4.659274569
P27864	FBgn0004584	Rrp1	-0.567914963	4.430452075
Q9W441	FBgn0029837	Tsp5D	-2.02828455	4.263844286
A0A0K0K2F3	FBgn0262952	ND4	-1.587227821	4.247844187
Q9VJ14	FBgn0086442	mib2	-1.990968704	4.236590545
Q8T3K1	FBgn0039508	CG3368	-1.58000946	4.19234362
Q9VMR6	FBgn0031703	CG12512	-0.706595898	4.021937091
P53034	FBgn0260985	RfC4	-2.592122555	3.904658868
Q8SX37	FBgn0030670	Pis	-0.994651794	3.846582873
Q8T0U6	FBgn0000711	flw	-0.734861374	3.843885702
Q9VEX2	FBgn0250823	gish	-2.604410172	3.764658161
Q9VI13	FBgn0267698	Pak	-0.629755497	3.711834207
Q9VFB7	FBgn0038303	SIDL	-0.436401844	3.659612867
M9PEA7	FBgn0035677	CG13293	-0.852367401	3.528129472
Q9VF17	FBgn0051183	CG11846	-0.751546383	3.469857442
F0JAN9	FBgn0036257	RhoGAP68F	-1.319040775	3.453029706
Q9VCF4	FBgn0039132	AP-1sigma	-1.151524544	3.442318436
Q967S7	FBgn0044442	gag	-1.089314938	3.416688077
Q9VSK2	FBgn0020224	Cbl	-0.647787094	3.390520328
Q8IP22	FBgn0261999	Ca-Ma2d	-0.58769083	3.38784495
M9PBU9	FBgn0031414	eyes	-2.670945644	3.373617598
Q9VIU8	FBgn0032798	CG10132	-0.851373672	3.356271814
Q86P01	FBgn0024182	waw	-1.13344717	3.352076433
Q9XYZ5	FBgn0260962	pic	-0.160964966	3.32771686
A0A0B4LGA1	FBgn0034902	CG5532	-1.981283665	3.268703821
A4V4I0	FBgn0001105	Gbeta13F	-1.259864807	3.114774063
M9NES0	FBgn0000120	Arr1	-1.826866627	3.100356232
Q9W3R7	FBgn0029943	Atg5	-0.550779343	3.09778862
E1JGX3	FBgn0026401	Nipped-B	-0.831085682	3.045760182
E8NHB1	FBgn0011836	Taf2	-0.833092213	3.010712155
Q9VTW1	FBgn0036272	Sms	-0.515211582	2.996665794
Q9VEC5	FBgn0261532	cdm	-1.753203869	2.952048145
P21521	FBgn0004242	Syt1	-0.721171379	2.930820829
Q8IQV9	FBgn0031078	Nup205	-0.758240223	2.917044839
A8JQT1	FBgn0085386	CG9783	-0.678024769	2.901060547
Q5BIA9	FBgn0033924	CG8613	-1.099391937	2.884304755
E1JIV7	FBgn0003429	slo	-0.692589283	2.88195284
A0A0B4LH50	FBgn0000046	Act87E	-0.658251762	2.868406468
Q9VVX5	FBgn0026630	nes	-0.855999947	2.860734213
Q9V463	FBgn0021761	Nup154	-0.720492363	2.857560376
A1ZAN2	FBgn0034180	Ehbp1	-0.975770473	2.855098884
Q9W1F4	FBgn0034939	thoc5	-0.974275589	2.835545417
Q24253	FBgn0010380	AP-1-2beta	-1.138159275	2.823150595
X2J516	FBgn0000053	Gart	-1.48904705	2.820591985
Q24160	FBgn0015737	Hmu	-1.437750816	2.805018387
E8NHB5	FBgn0000038	nAcRbeta-64B	-0.695033073	2.762121778
A8JR71	FBgn0013759	CASK	-0.684382439	2.736437184
Q9VYT3	FBgn0030344	Nrd1	-0.286151409	2.7348801
A0A0B4KFE5	FBgn0010222	Nmdmc	-0.668919086	2.718900046
Q9VVM8	FBgn0036772	CG5290	-1.05629921	2.705810615
P55162	FBgn0011771	Hem	-0.660661697	2.681256859
U3PV94	FBgn0261787	brun	-0.514210701	2.670596852
Q9VNH5	FBgn0037372	CG2091	-0.796307087	2.656647483
E2QD75	FBgn0022942	Cbp80	-1.094027519	2.649171289
Q8MRI4	FBgn0030336	CG1578	-1.044643402	2.646895998
Q9NHV8	FBgn0040493	grsm	-0.416300297	2.645497985
Q9U787	FBgn0028408	Drep2	-0.563411236	2.642475076
Q9VAK1	FBgn0086361	alph	-0.601245403	2.634017568

Protein ID	Flybase	Gene Name	Student's T-test Difference ATG5 RNAi_ctrl	-Log Student's T-test p- value ATG5 RNAi_ctrl
Q8SX39	FBgn0033958	jef	-0.440877914	2.631644361
Q9V429	FBgn0040070	Trx-2	-2.380078316	2.619776461
Q9VM10	FBgn0025697	santa-maria	-0.901993752	2.615365915
Q8IMQ8	FBgn0039464	CG6330	-1.210037708	2.612729477
Q9VB69	FBgn0029155	Men-b	-0.558570862	2.601484433
A1Z9E3	FBgn0024556	mEFTu1	-1.06567812	2.566179505
Q9V3Y4	FBgn0027786	Mtch	-0.797914982	2.554027216
M9NGR8	FBgn0085387	shakB	-1.006640434	2.549061965
A1YK86	FBgn0039004	Nup133	-0.741430759	2.541561192
Q03445	FBgn0004619	GluRIA	-2.264136314	2.530845195
Q7PLS8	FBgn0262117	IntS3	-0.787387371	2.509293735
Q9W1X7	FBgn0034795	MED23	-1.019356251	2.507576314
A0A0B4LIA3	FBgn0010379	Akt1	-1.650306225	2.500552255
A0A0B4LH53	FBgn0266464	Nsf2	-0.77220726	2.486788346
Q9VP27	FBgn0264561	Glg1	-1.522875309	2.469828469
Q9XZU1	FBgn0022213	Cse1	-0.69940424	2.45828017
Q9VIM1	FBgn0263355	CG11017	-0.644228935	2.444213347
M9MQH9	FBgn0260439	Pp2A-29B	-0.440115452	2.438934202
M9PFZ6	FBgn0000045	Act79B	-1.237658978	2.404278477
Q9VWB0	FBgn0052226	Pex23	-0.460317612	2.394464263
Q24241	FBgn0011747	Ank	-0.264620781	2.379480119
B3DMZ9	FBgn0028667	CG32090	-2.665279388	2.371990422
Q7JWW6	FBgn0026602	Adk3	-0.573194981	2.366622844
Q9VU39	FBgn0036337	Adk2	-0.597268105	2.365727673
Q7K1C5	FBgn0034269	Hyccin	-0.659865379	2.349449961
A4V3W2	FBgn0003371	sgg	-1.623731613	2.334329994
A1YK08	FBgn0034310	Nup75	-0.794615746	2.3268552
Q9NHP1	FBgn0260799	p120ctn	-0.952807903	2.324366758
A0A0C4FEI4	FBgn0037228	CG1092	-0.682971478	2.316194634
Q9W4X4	FBgn0267350	Pi4KIIIalpha	-0.381973267	2.314023633
P40421	FBgn0265959	rdgC	-0.614055157	2.292467876
A0A0B4K664	FBgn0027948	msps	-0.560742855	2.277792271
M9MRG0	FBgn0028704	Nckx30C	-0.564293861	2.273057493
A4V0U4	FBgn0032721	CG10602	-1.300421715	2.261745351
X2JB48	FBgn0003360	sesB	-0.334412575	2.259784432
A0A0B4KI25	FBgn0066101	LpR1	-0.472026825	2.243762222
Q9VE62	FBgn0023083	fray	-0.811131477	2.233470074
A1Z945	FBgn0033766	Nup188	-0.600279331	2.230173728
Q9VK44	FBgn0032467	Ube4B	-0.219268322	2.226250666
A0A0B4KGW0	FBgn0039140	Miro	-1.117631435	2.202312071
A0A0B4LIE3	FBgn0262869	Gfrl	-0.318349361	2.20055696
Q9V492	FBgn0039930	CG11077	-1.36037302	2.200464915
Q7K511	FBgn0023507	D2hgdh	-1.03046751	2.198565709
Q94883	FBgn0015664	Dref	-0.500582695	2.165806431
A1Z942	FBgn0261625	GLS	-0.768095493	2.163764563
A8JNU6	FBgn0010352	Nc73EF	-0.443123817	2.162581596
Q9W0H2	FBgn0035207	Herc4	-0.396798134	2.160712368
A0A0B4KF57	FBgn0037218	aux	-0.222950935	2.152560554
O44116	FBgn0022960	vimar	-0.363367081	2.144412772
A0A0B4KHS9	FBgn0003134	Pp1alpha-96A	-1.100615978	2.143491008
Q7K0H4	FBgn0261041	stj	-0.400728703	2.139285567
A8JMD5	FBgn0085385	bma	-0.512637615	2.134061986
Q8T6L6	FBgn0039157	Myo95E	-0.39434576	2.120891507
Q9W196	FBgn0034989	CG3356	-0.585351944	2.120617847
X2JDI1	FBgn0004177	mts	-0.724621296	2.115730937
A0A0B4LFX0	FBgn0000578	ena	-1.293921471	2.108414447
Q9VPY7	FBgn0031320	CG5126	-0.363037586	2.101176862
Q9VFE7	FBgn0038274	Nup93-2	-0.919201374	2.099613991
P91938	FBgn0020653	Trxr-1	-0.589828491	2.07510714
Q9VXH7	FBgn0030740	CG9917	-2.244744778	2.063294471
Q59E09	FBgn0012034	AcCoAS	-1.027160168	2.057836085
Q9VPW9	FBgn0031304	TBC1D23	-0.838861465	2.055472266
B3STG5	FBgn0002774	MLE	-0.360711575	2.046459547

Protein ID	Flybase	Gene Name	Student's T-test Difference ATG5 RNAi_ctrl	-Log Student's T-test p- value ATG5 RNAi_ctrl
A1Z783	FBgn0033244	CG8726	-1.058238029	2.035536227
Q9VW22	FBgn0260655	l(3)76BDm	-0.420752048	2.035286837
M9PDK5	FBgn0027779	VhaSFD	-0.87620163	2.0338341
Q9VC93	FBgn0039183	Dis3	-0.540194511	2.024545698
P25991	FBgn0003559	su(f)	-0.810555935	2.018510433
M9NF25	FBgn0263111	cac	-0.863296509	2.010708299
A0JL24	FBgn0036134	FoxK	-0.742759705	1.981464999
Q9VN86	FBgn0037298	Sccpdh1	-0.659210205	1.972334289
E8NH00	FBgn0027554	CG8042	-1.970517635	1.964907263
Q9W299	FBgn0034688	CG11474	-0.438964367	1.964498919
Q9VAH7	FBgn0260990	yata	-0.327300072	1.963113394
Q9W1R5	FBgn0003977	vir	-0.724261761	1.952902372
P23625	FBgn0004435	Galphaq	-0.408500671	1.945485332
X2JCY2	FBgn0266452	CTPsyn	-0.520254612	1.942734205
A1ZBD6	FBgn0034389	Mctp	-0.759168148	1.94200176
A1Z6H7	FBgn0266580	Gp210	-0.209863663	1.9366225
Q9VL71	FBgn0024285	Srp54	-0.863901615	1.927949105
M9NDM4	FBgn0040066	wds	-0.870414734	1.926976619
H5V8C9	FBgn0260237	CG42511	-1.188139439	1.920636753
Q59E36	FBgn0261573	CoRest	-0.949168682	1.917424717
X2J9F3	FBgn0262647	Nup160	-0.720887184	1.915750167
Q9VBL2	FBgn0039380	CG5890	-2.055403233	1.907342004
F0JAM7	FBgn0243486	rdo	-0.69709444	1.896643317
Q9W542	FBgn0023509	mip130	-0.340179443	1.889066615
C9QP42	FBgn0001942	elf4A	-0.566495895	1.881729038
Q9NGV3	FBgn0035710	SP1173	-0.850805283	1.880680631
Q9VC89	FBgn0039187	CG6454	-0.434412479	1.866892293
A0A0B4KI69	FBgn0261988	Gprk2	-0.511816978	1.857406514
P25171	FBgn0002638	Rcc1	-0.741811752	1.848802055
Q4V6M1	FBgn0051713	Datp	-0.812245369	1.842345916
Q9VM33	FBgn0263133	mEFG1	-0.666275501	1.841598639
Q9VUH9	FBgn0036451	Helz	-0.597185612	1.84084139
B7Z0L0	FBgn0262742	Fas1	-3.47694397	1.839438271
Q7K569	FBgn0022160	Gpo1	-0.686201096	1.834471446
Q7KUB0	FBgn0001248	ldh	-0.476302624	1.832610802
Q24560	FBgn0003887	betaTub56D	-0.467756271	1.828112185
Q9VMI9	FBgn0025742	mtm	-1.18538332	1.824782873
Q9VNF5	FBgn0037356	anon-WO0118547.367	-0.879839897	1.818402021
E1JGU6	FBgn0266377	Pde8	-0.74241066	1.814293792
Q9W259	FBgn0034723	CG13506	-1.344730854	1.812545131
Q8MRR5	FBgn0034069	CG8401	-0.765070915	1.81210293
B7YZT0	FBgn0050361	mtt	-0.444045544	1.811698732
A0A0B4JDG2	FBgn0261550	CG15684	-0.281820297	1.809513968
Q9VXR5	FBgn0030672	CG9281	-0.683750629	1.805267129
A0A0B4K7K6	FBgn0039417	CG6073	-0.669909477	1.802354111
Q9VBT7	FBgn0039311	CG10513	-0.345255375	1.795749023
A0A0S0WNN6	FBgn0020497	emb	-0.827349663	1.772368255
A0A126GUU0	FBgn0260444	Not10	-1.25229311	1.771092858
A0A0B4KFT3	FBgn0003091	Pkc53E	-0.71807766	1.764520478
Q9NF74	FBgn0040348	EG:BACR7A4.15	-0.33954525	1.762076575
C0HL67	FBgn0004828	His3.3B	-0.612571239	1.756500109