## Supplementary information S1 (table) | Clathrin-mediated endocytosis and human diseases

Disease category	Protein	Gene	Disease*	Alterations**	References
Cancer	Clathrin heavy chain	CLTC	IMT Large B-cell lymphoma Paedriatric renal carcinoma Renal cancer Breast cancer	CLTC-ALK fusion CLTC-ALK fusion CLTC-TFE3 fusion somatic mutation somatic mutations	Bridge JA et al Am J Pathol 2001 159, 411  De Paepe P et al. Blood 2003, 102, 2638  Argani P et al. Oncogene 2003, 22, 5374  Dalgliesh GL et al Nature 2010 463, 360  Kan Z. et al. Nature 2010, 466, 869
	EPS15	EPS15	AML Lung cancer	somatic mutations, EPS15-MLL fusion somatic mutations	Bernard OA, et al. Oncogene 1994, 9, 1039 Kan Z. et al. Nature 2010, 466, 869
	CALM	PICALM	ALL and AML	PICALM-AF10, -MLL fusions, som. mutations	Dreyling MH et al. PNAS, 1996, 93, 4804
	Dab2	DAB2	Ovarian cancer Prostate cancer Bladder cancer Breast cancer Oesophageal cancer Colorectal carcinomas	Downregulated Downregulated Downregulated Downregulated Downregulated Downregulated Downregulated	Mok SC et al. Oncogene 1998, 16, 2381 Tseng CP et al. Endocrinology 1998, 139, 3542 Karam JA et al. Clin Cancer Res 2007, 13, 4400 Fazili Z et al. Oncogene 1999, 18, 3104 Anupam Ke t al. World J Gastroenterol 2006, 12, 6041 Kieef J et al. Dis. Colon Rectum. 2002, 45, 1242
	Endophilin	SH3GL1	AML	EEN-MLL fusion, somatic mutations	So CW et al PNAS 1997, 94, 2563
	HIP1	HIP1	CMML Lung cancer Breast cancer	HIP1-PDGFRB fusion, somatic mutations somatic mutations somatic mutations	Ross TS et al. Blood 1998, 91, 4419 Kan Z. et al. Nature 2010, 466, 869 Kan Z. et al. Nature 2010, 466, 869
	HIP1R	HIP1R	Colon cancer CLL	overexpressed overexpressed	Scanian MJ et al. Cancer Res. 2002, 62, 4041 Porpaczy E et al. Eur J Clin Invest 2009, 39, 568
	Cortactin	CTTN	Primary breast carcinomas	Amplification, protein overexpression	Schuuring E. et al. Oncogene, 1992, 7, 355
	βArrestin1	ARRB1	Breast cancer	somatic mutations	Kan Z. et al. Nature 2010, 466, 869
	Numb	NUMB	Breast cancer	Downregulated	Pece S. et al. J Cell Biol 2004, 167, 215
Psychiatric diseases	Amphiphysin	BIN1	Schizophrenia	increased expression	English JA et al. Proteomics 2009, 9, 3368
	Endophilin	SH3GL1	Schizophrenia	decreased expression	Prabakaran S et al. Mol Psychiatry, 9, 2004
	Dynamin	DNM1	Schizophrenia	increased expression	Prabakaran S et al. Mol Psychiatry, 2004, 9, 684 Clark D et al Mol Psychiatry 2006, 11, 459 Pennington K et al Mol Psychiatry, 2007, 13, 1102
	Synaptojanin	SYNJ1	Bipolar disorder	mutations	Saito T et al. Mol Psychiatry 2001, 6, 387
Neuropathies & Myopathies	Amphiphysin	BIN1	CNM	mutations	Nicot AS et al. Nat Genet. 2007, 39, 1134
	Dynamin	DNM2	CNM CMT	mutations mutations	Bitourn M et a; Nat Genet 2005, 37, 1207 Zuchner S et al. Nat Genet 2005, 37, 289
Neurodegenerative diseases	CALM	PICALM	Alzheimer	SNPs	Harold D et al Nat Genet 2009, 41, 1088
	Amphiphysin	BIN1	Alzheimer	SNPs	Seshadri S et al. JAMA 2010, 303, 1832
Metabolic syndromes	ARH	LDLRAP1	Autosomal recessive hypercholesterolaemia	mutations	Garcia CK, et al Science 2001, 292, 1394
	SGIP1	SGIP1	Obesity	SNPs	Cummings N et al Int J Obes 2011, in press
	SHIP2	INPP1L	Type2 diabetes Hypertension Central obesity Dyslipidaemia	deletion inducing increased expression mutations mutations mutations	Clement S. et al. Nature 2001 409, 92 Kalsaki PJ et al., Diabetes 2004, 53, 1900 Kalsaki PJ et al., Diabetes 2004, 53, 1900 Kalsaki PJ et al., Diabetes 2004, 53, 1900
Genetic syndromes	OCRL	OCRL1	Lowe Syndrome Dent Syndrome	X-linked, eye, nervous system, kidney disease X-linked, renal only form of Lowe syndrome	Attre O et al Nature 1992 358, 239 Hoopes RR et al. Am J Hum Genet 2005, 76, 260
	Synaptojanin	SYNJ1	Down Syndrome	gene on Chrs 21 - increased expression	Arai Y et al. Brain Development 2002, 24, 67
	Intersectin	ITSN1	Down Syndrome	gene on Chrs 21 - increased expression	Pucharcos C. et al Eur J Hum Genet. 1999, 7, 704
	Dyrk1A	DYRK1A	Down Syndrome	gene on Chrs 21 - increased expression	Guimera J et al. Genomics 1999, 57, 407

<sup>\*</sup> IMT, Inflammatory Myoblastic Tumour; AML, Acute Myeloid Leukaemia; ALL, Acute Lymphoblastic Leukaemia; CMML, Chronic Myelomonocytic Leukaemia; CLL, Chronic Lymphocytic Leukaemia; CNM, autosomal dominant centronuclear myopathy; CMT, dominant intermediate Charcot-Marie-Tooth disease

<sup>\*\*</sup> alterations in human diseases